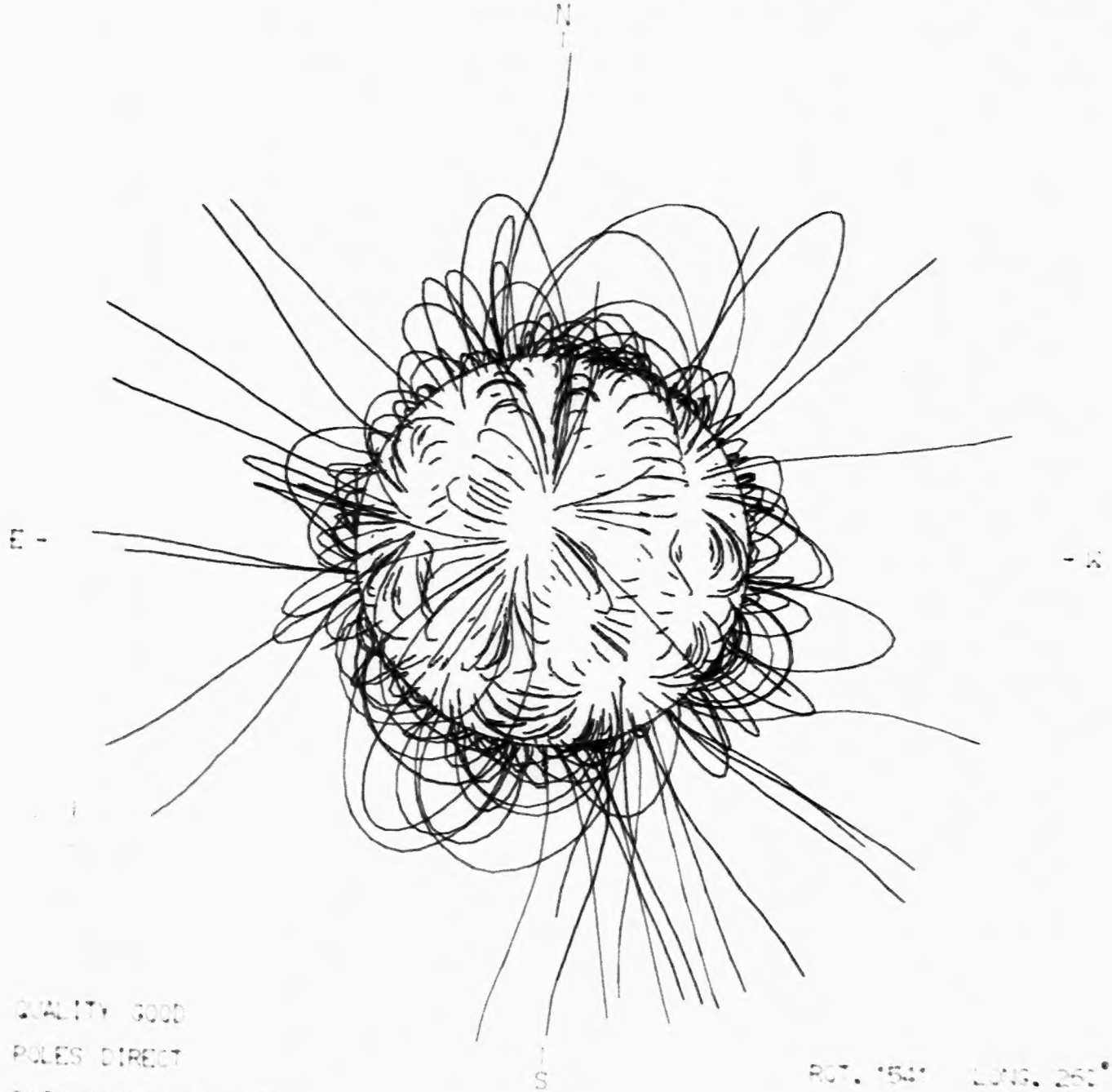
REEL 7

ROT. 1541 - ROT. 1562

18 NOV 1968 - 27 JUN 1970

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



QUALITY GOOD

POLES DIRECT

DATA WINDOW 1541.00

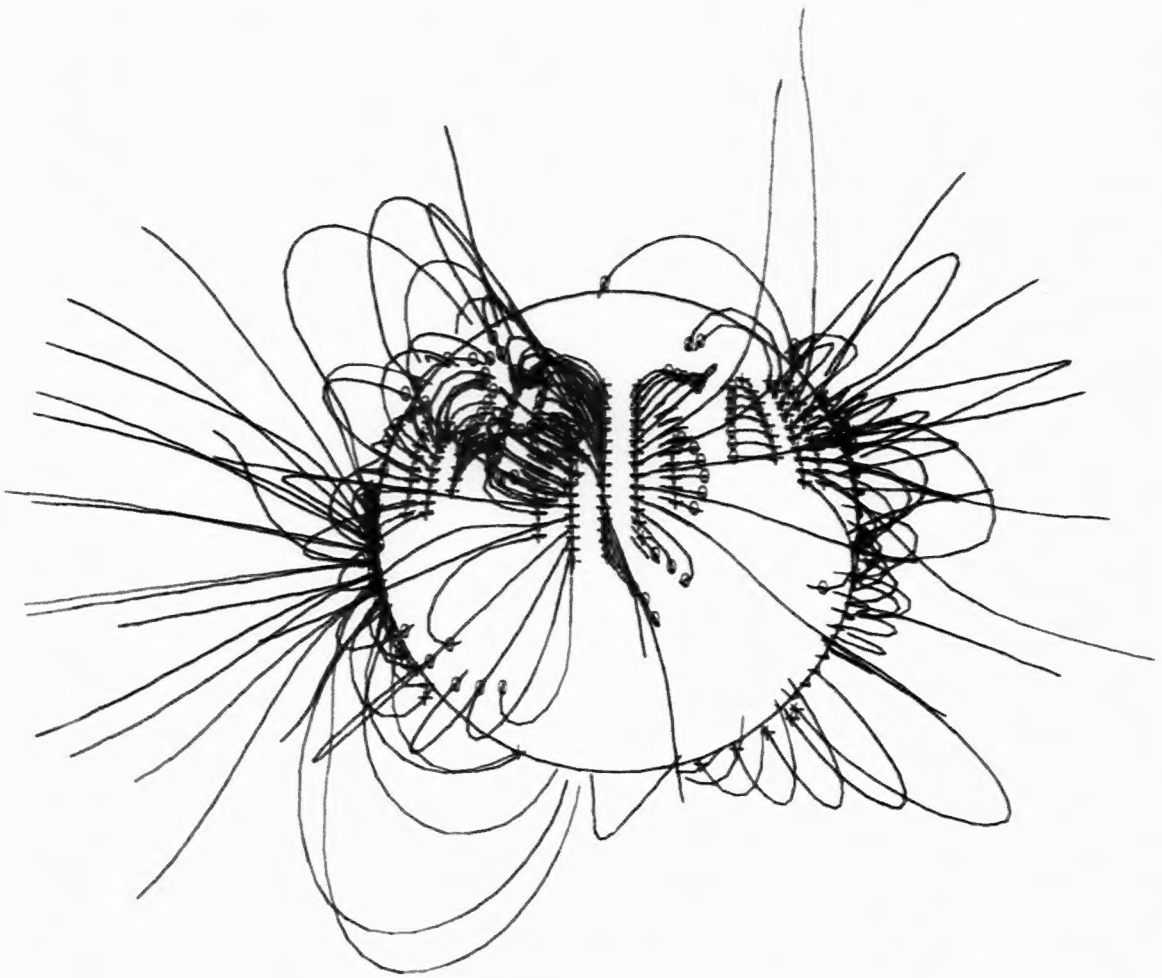
ROT. 1541 LONG. 251°

18.3 NOV 1968

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N

E -



- W

S

QUALITY GOOD

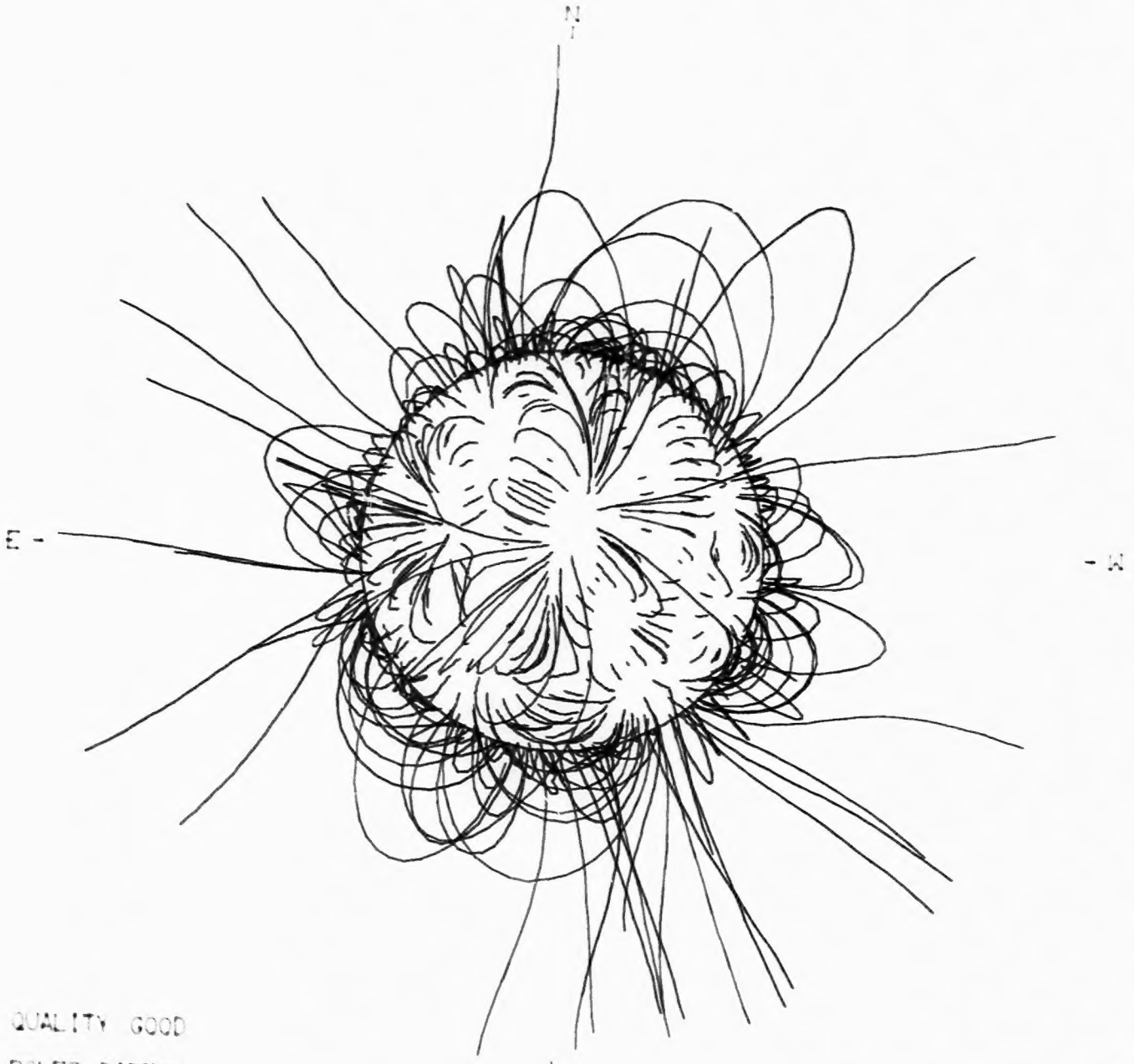
POLES DIRECT

DATA WINDOW 1541.00

ROT. 1541 LONG. 251°

18.3 NOV 1968

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



QUALITY GOOD

POLES DIRECT

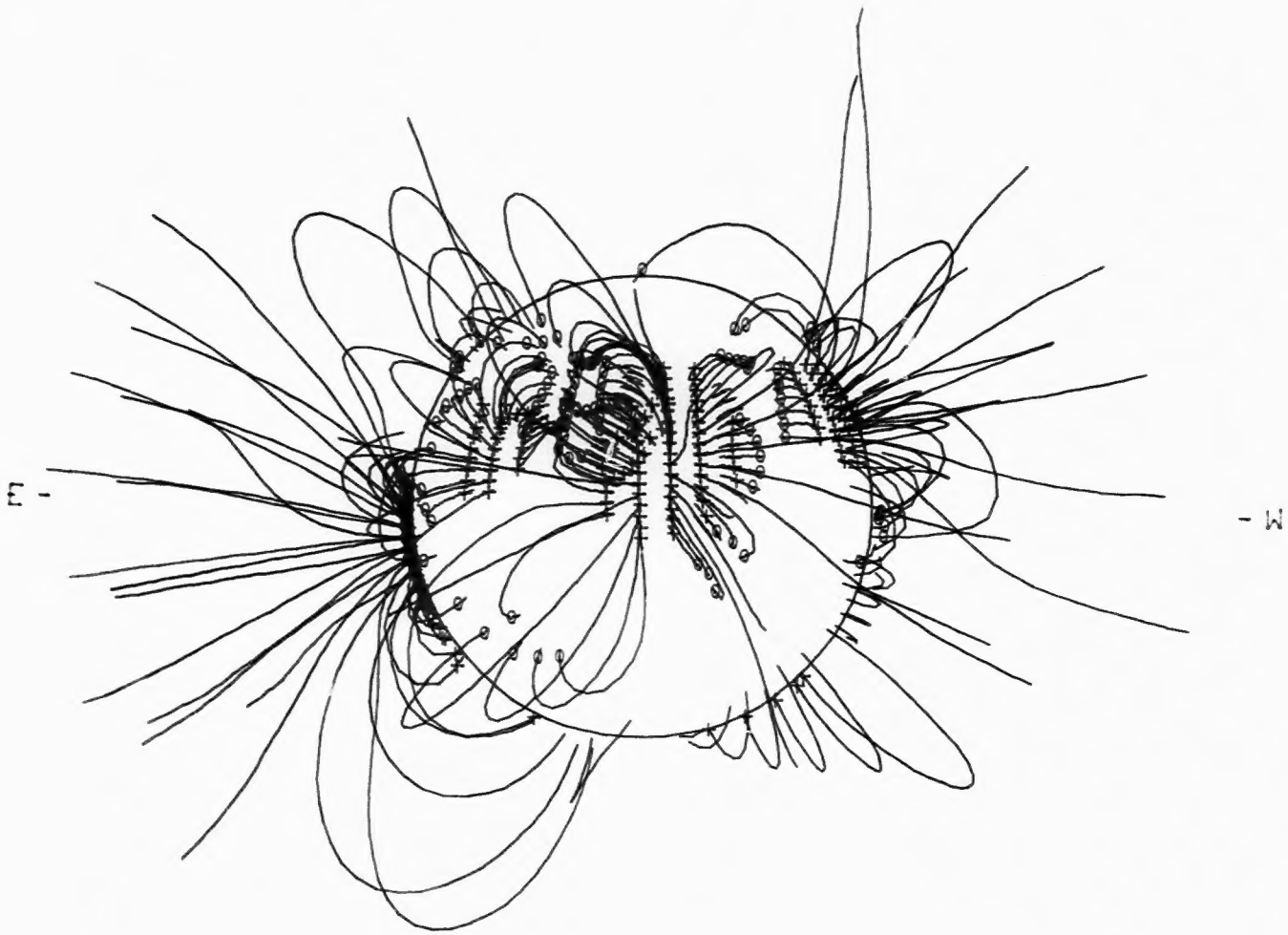
DATA WINDOW 1541.00

ROT. 1541 LONG. 250°

19.1 NOV 1968

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N



QUALITY GOOD

POLES DIRECT

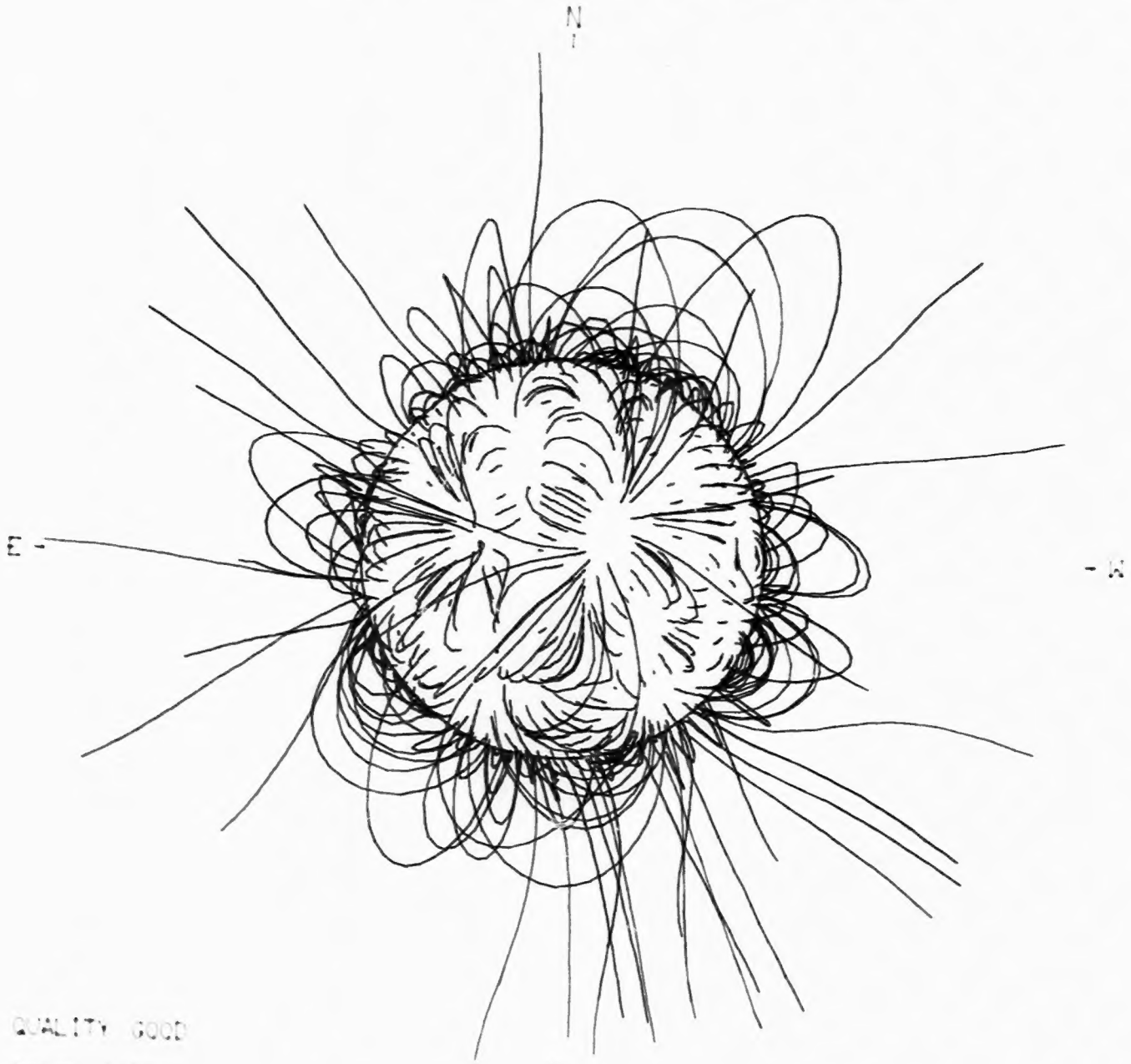
DATA WINDOW 1541.00

S

ROT. 1541 LONG. 250°

19.1 NOV 1968

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



QUALITY GOOD

POLES DIRECT

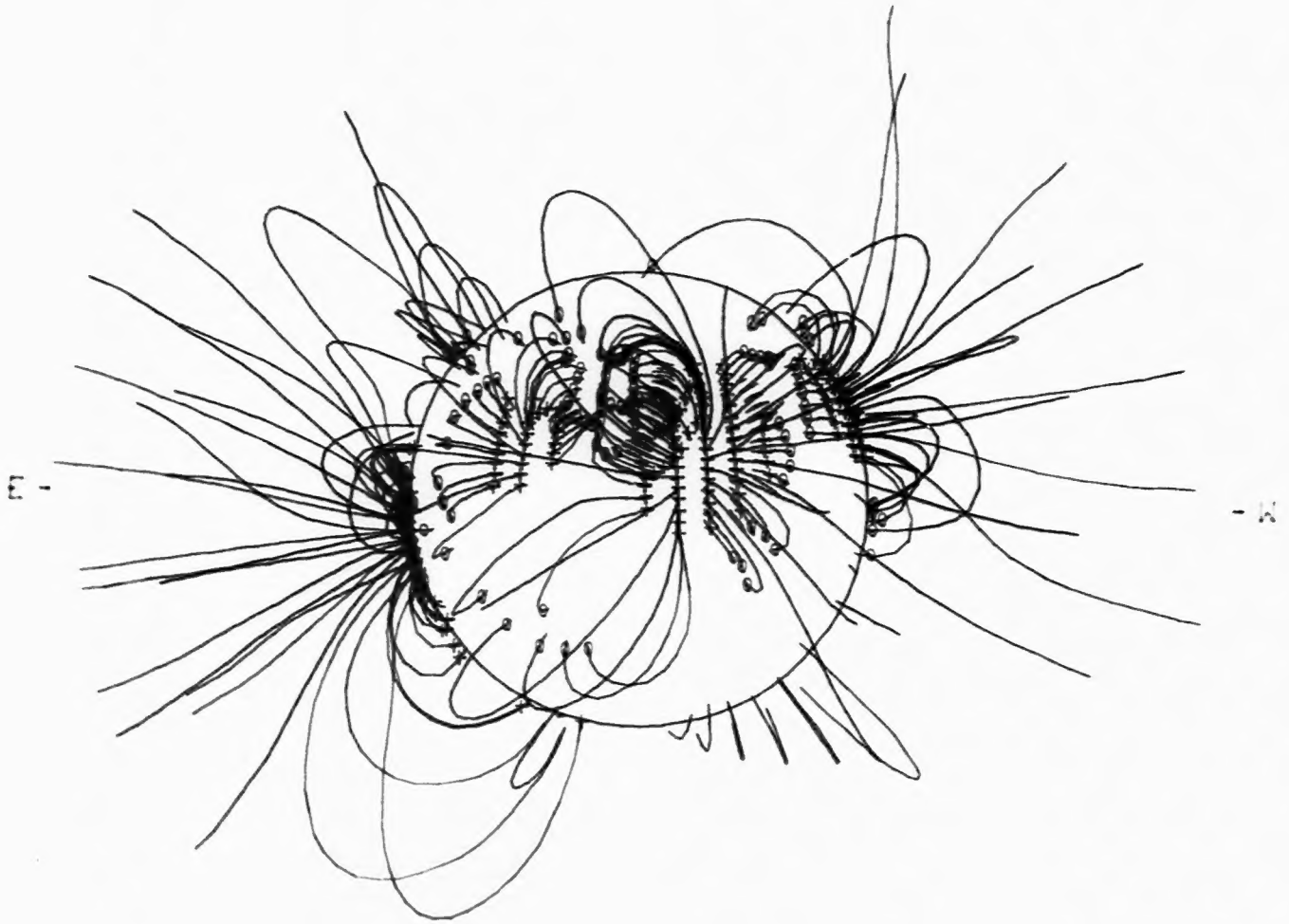
DATA WINDOW 1541.00

ROT. 1541 LONG. 240°

19.8 NOV 1968

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N



S

QUALITY GOOD

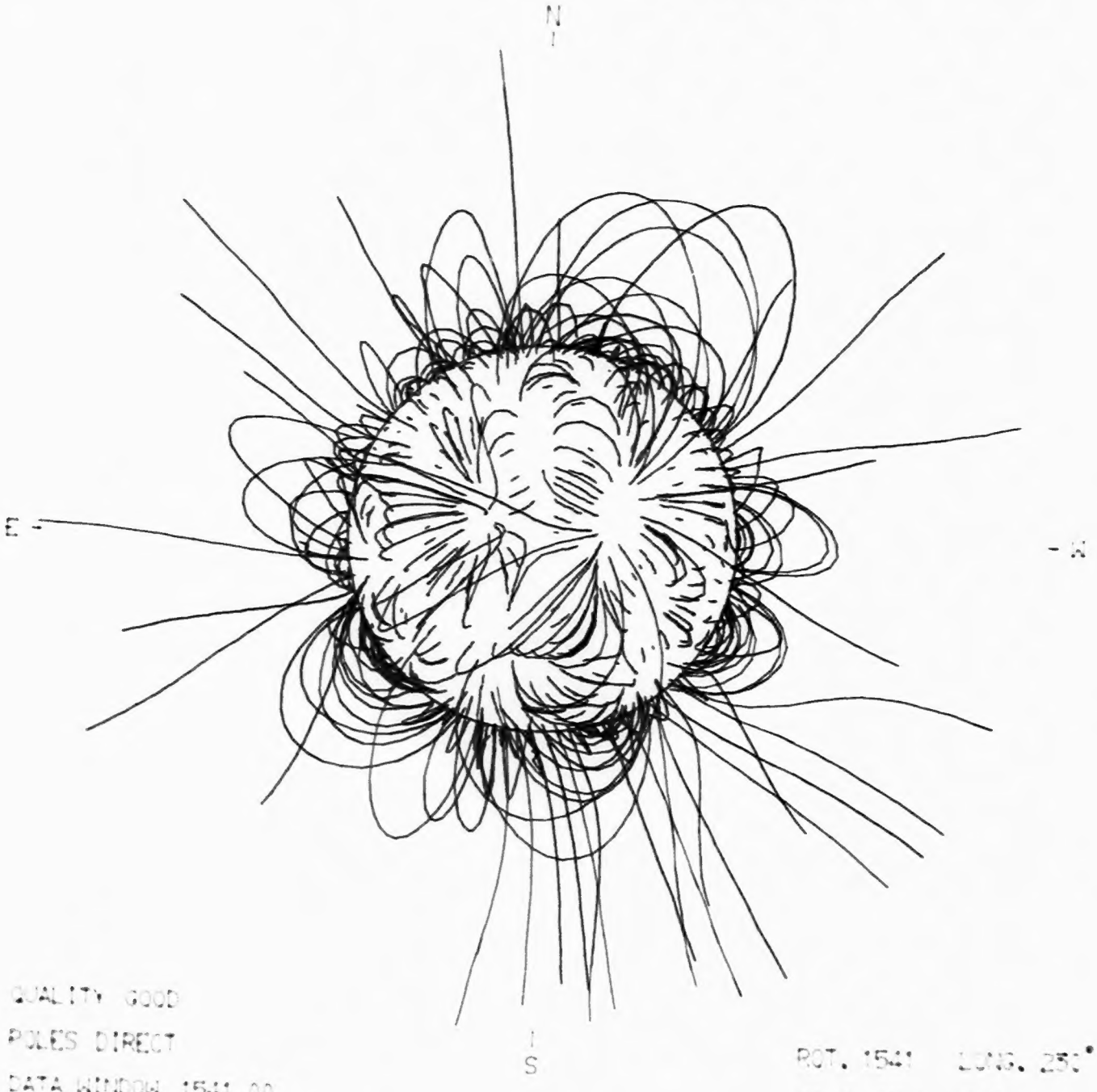
POLES DIRECT

DATA WINDOW 1541.00

ROT. 1541 LONG. 242°

19.8 NOV 1968

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



QUALITY GOOD

POLES DIRECT

DATA WINDOW 1541.00

ROT. 1541 LONG. 25.°

20.6 NOV 1968

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N

E -

- W

S

QUALITY GOOD

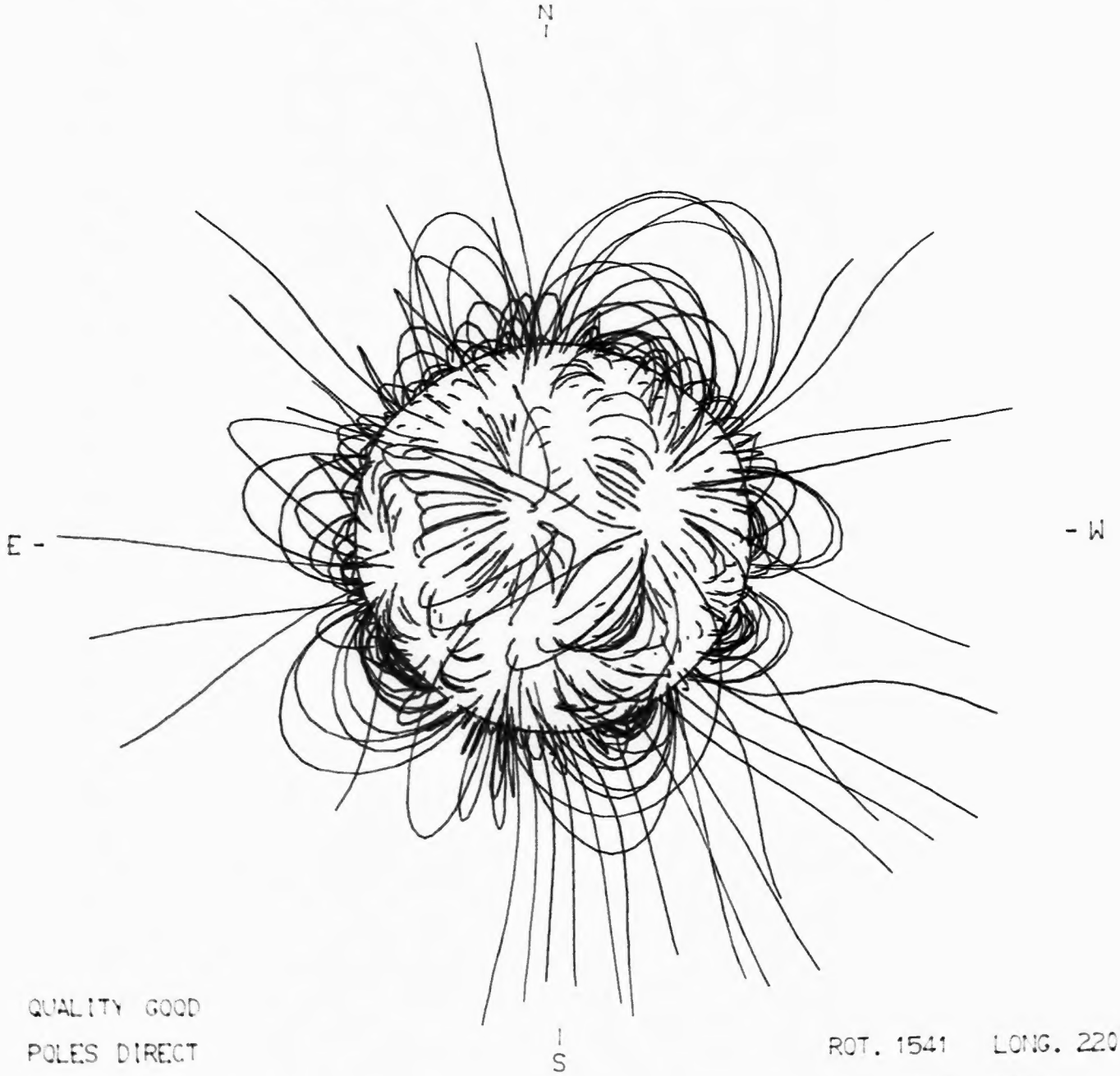
POLES DIRECT

DATA WINDOW 1541.00

ROT. 1541 LONG. 25°

20.6 NOV 1968

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



QUALITY GOOD

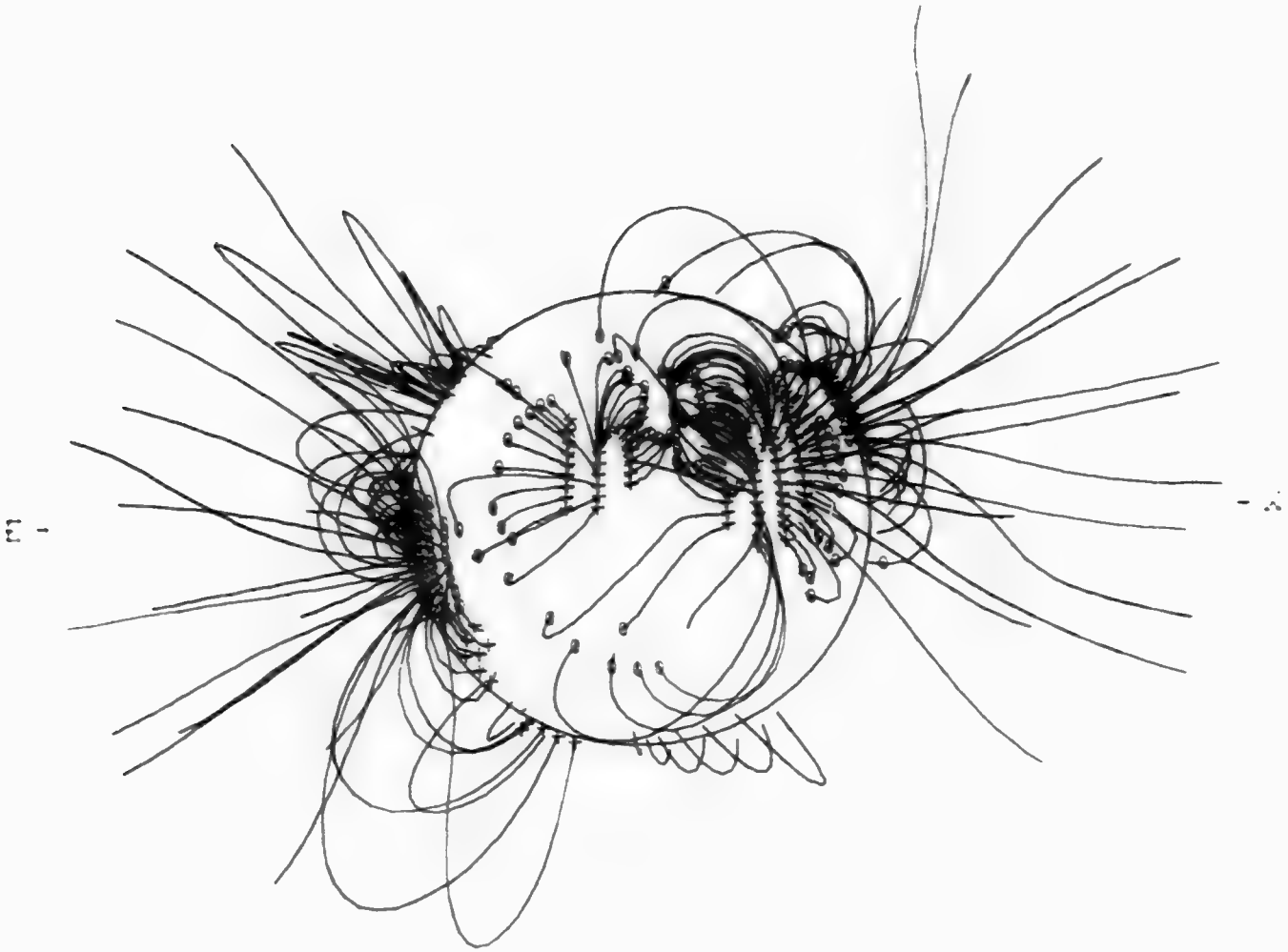
POLES DIRECT

DATA WINDOW 1541.00

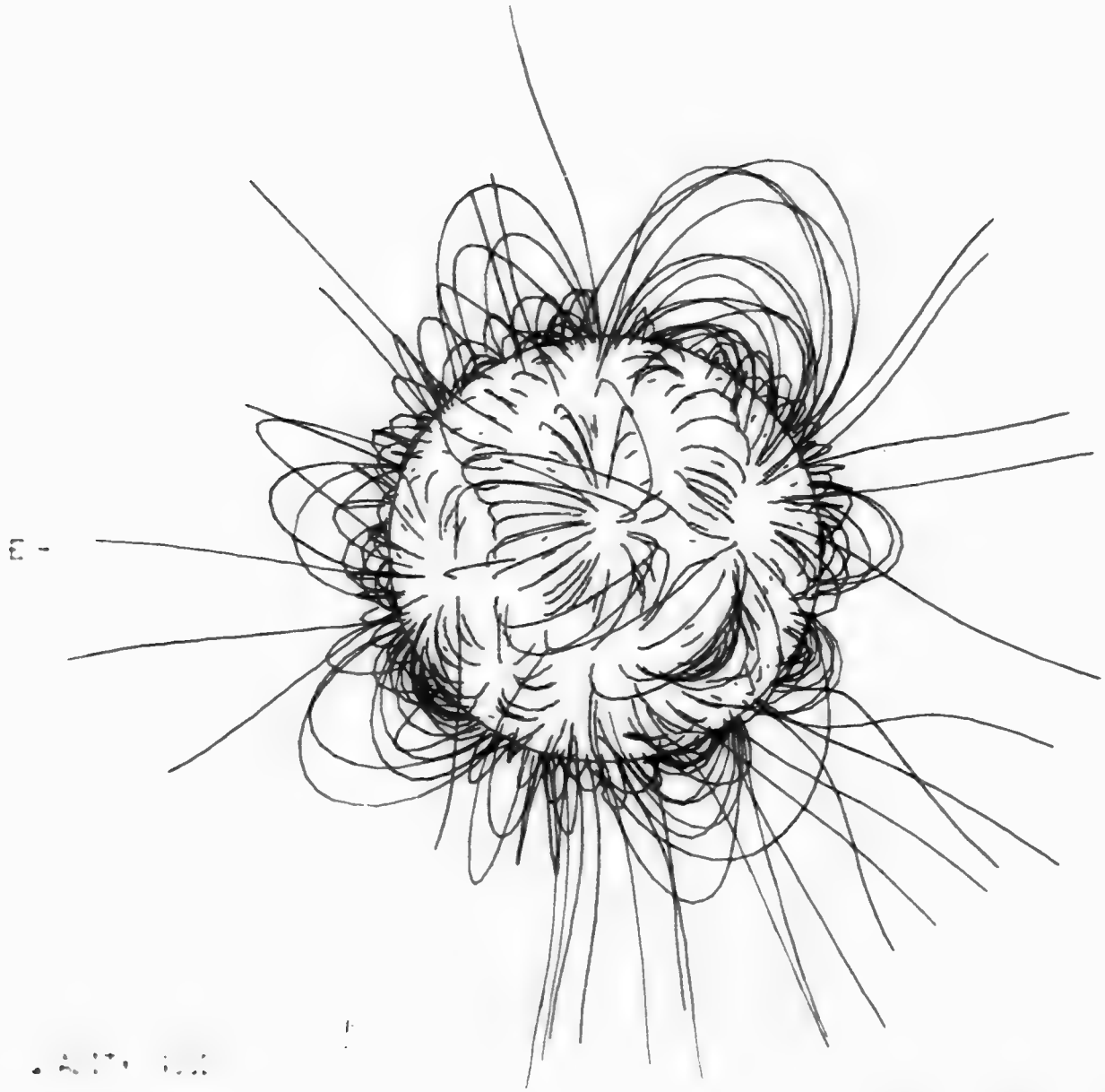
ROT. 1541 LONG. 220°

21.3 NOV 1968

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N

E -

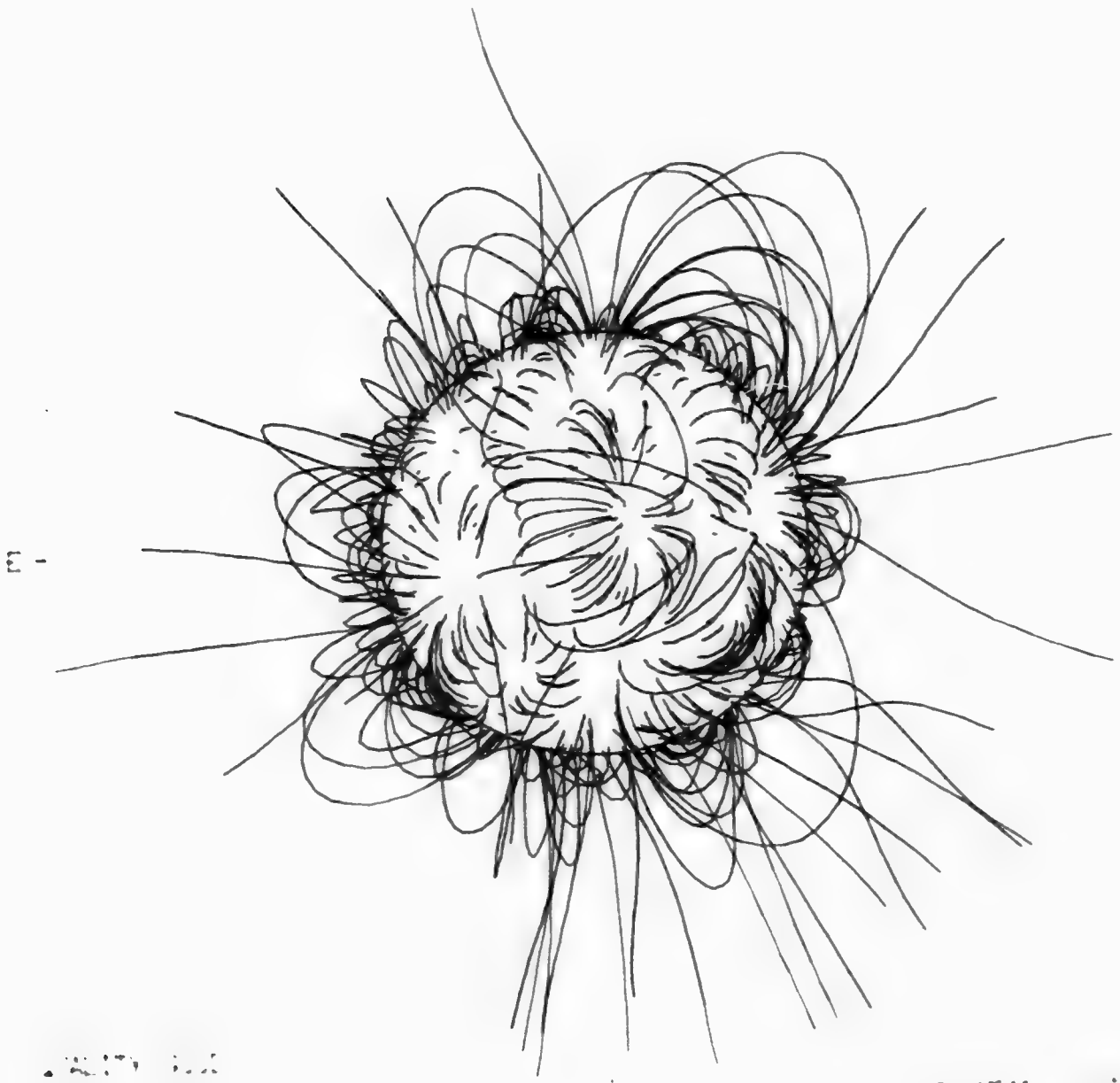
- W

S

QUALITY GOOD
POLES DIRECT
DATA WINDOW 1541.00

ROT. 1541 LONG. 210°
22.1 NOV 1968

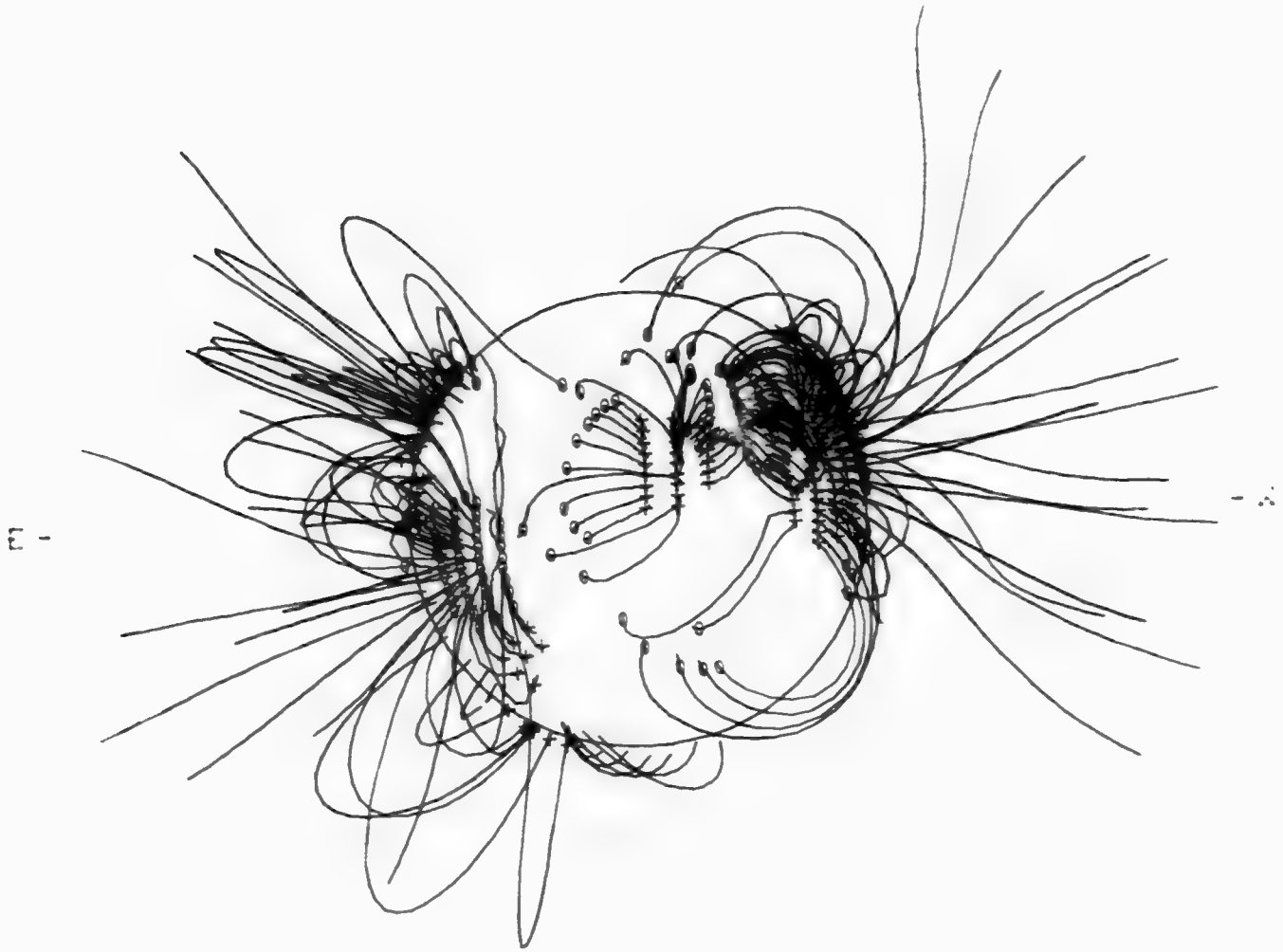
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



POLES DIRECT

DATA WINDOW 1541.00

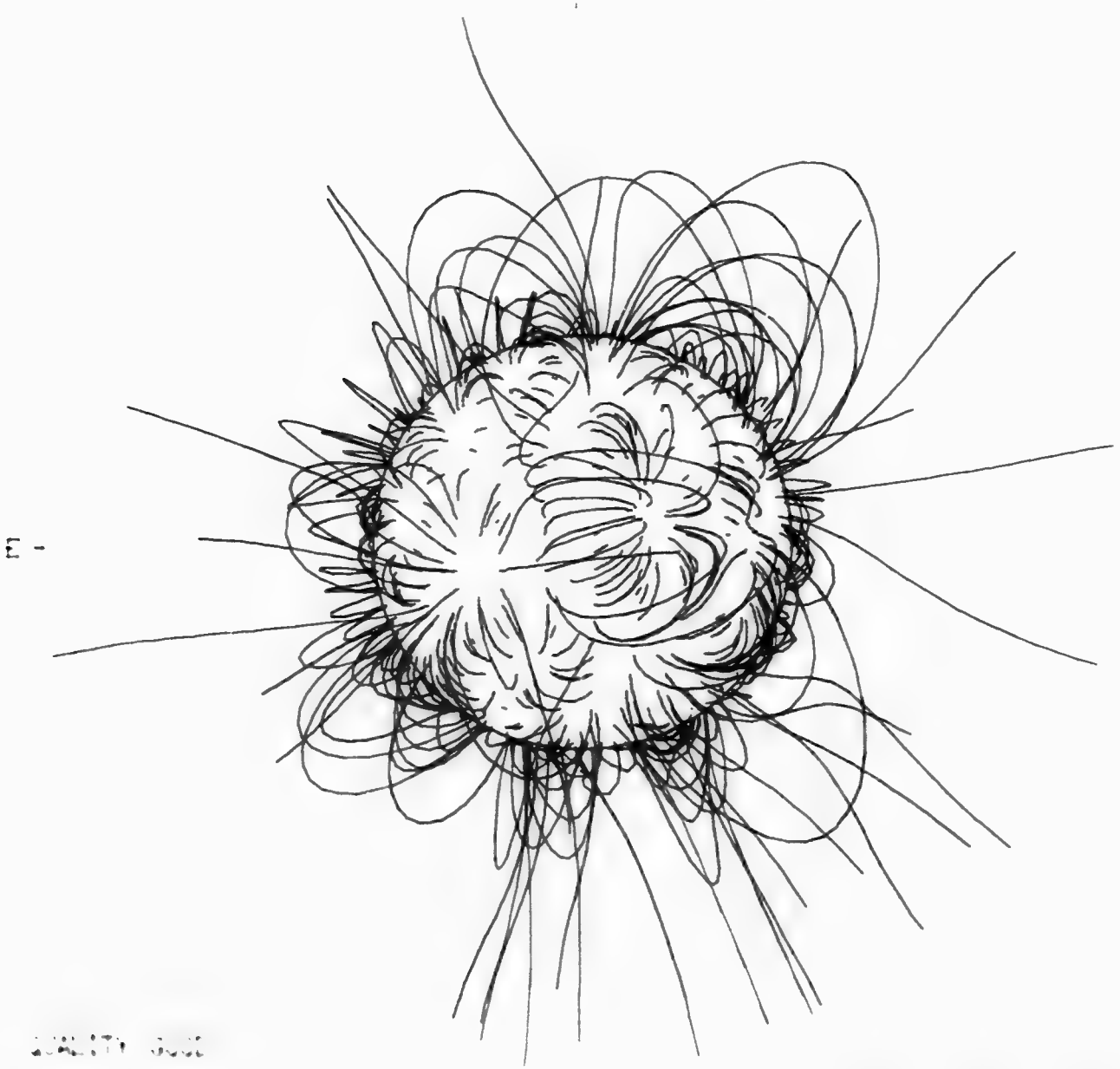
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



VALITY 3.0
PLANE DIRECT
DATA WINDOW 1541.00

22.8 10.1 1968

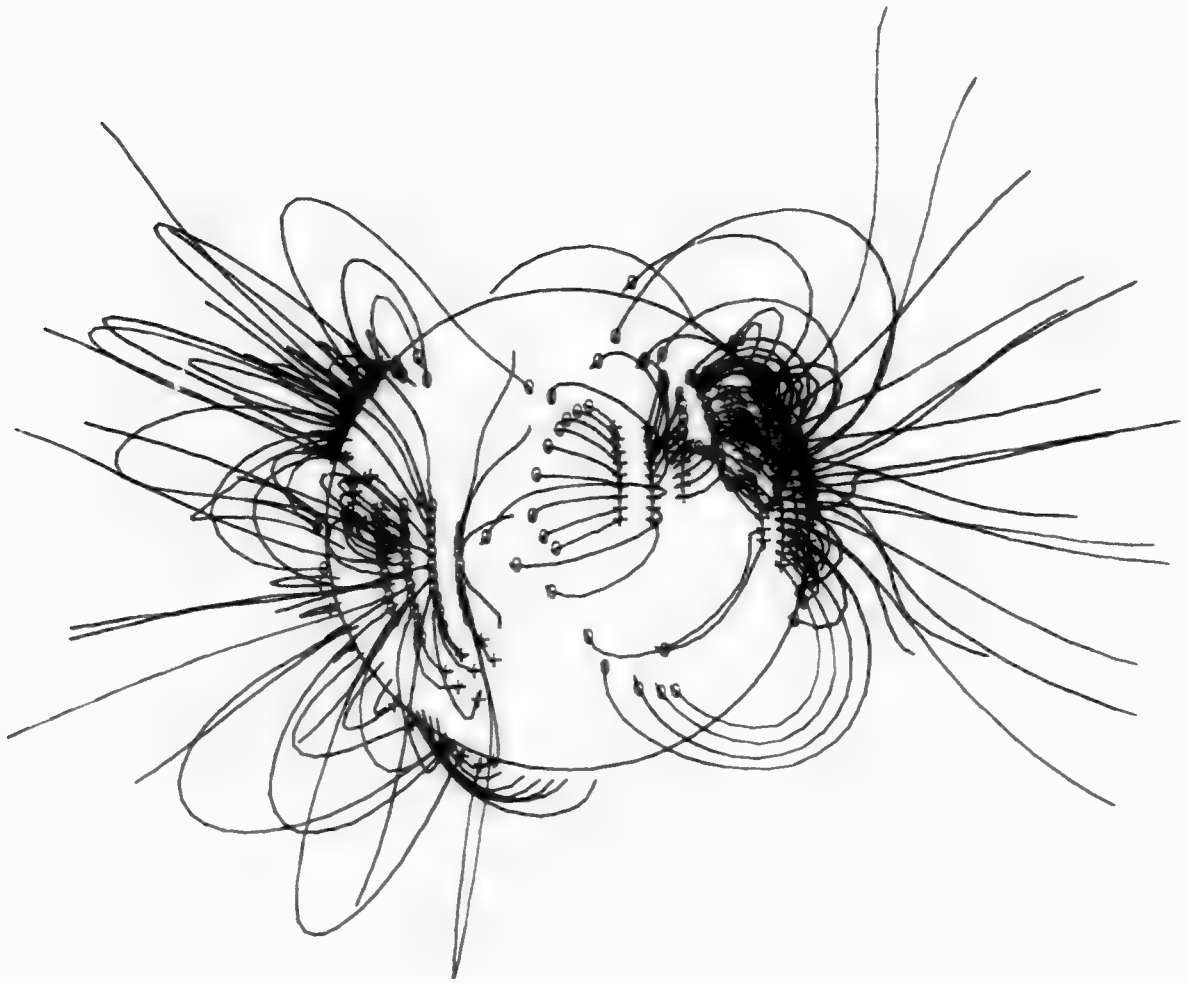
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



QUALITY GOOD
POLES DIRECT

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

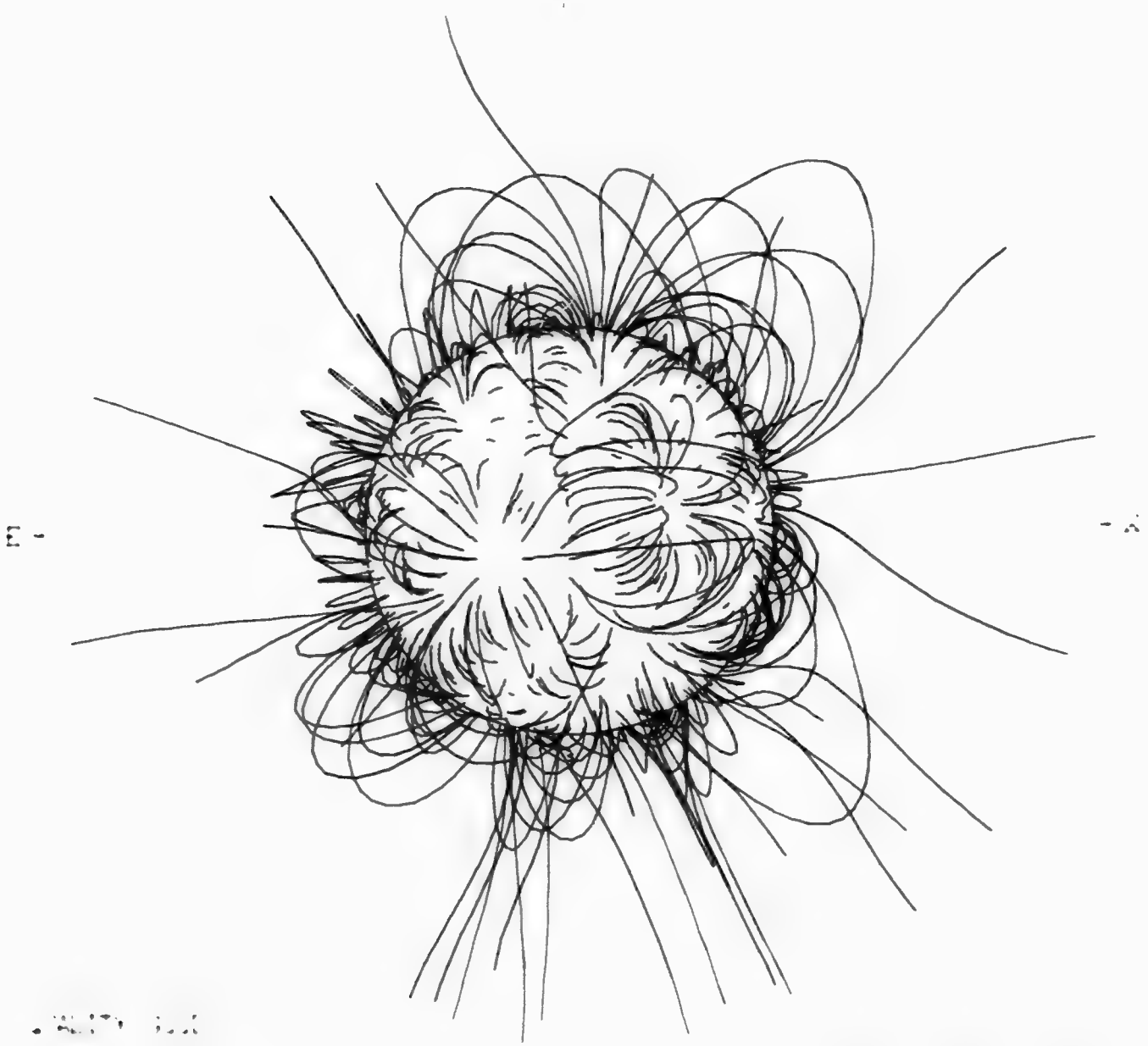
N



POLES DIRECT

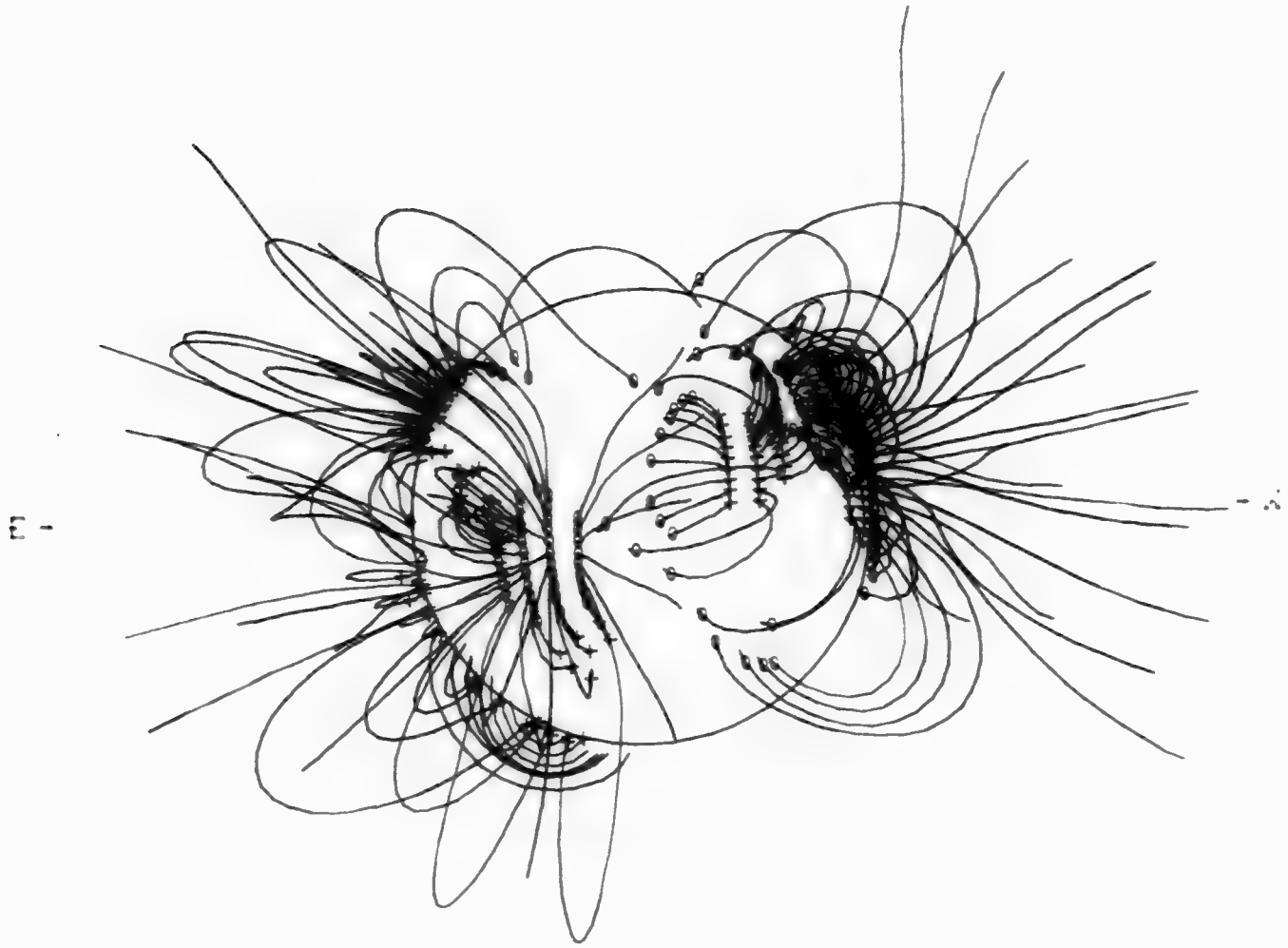
S

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



POLES DIRECT

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



POLES DIRECT

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N

E -

- W

S

QUALITY GOOD

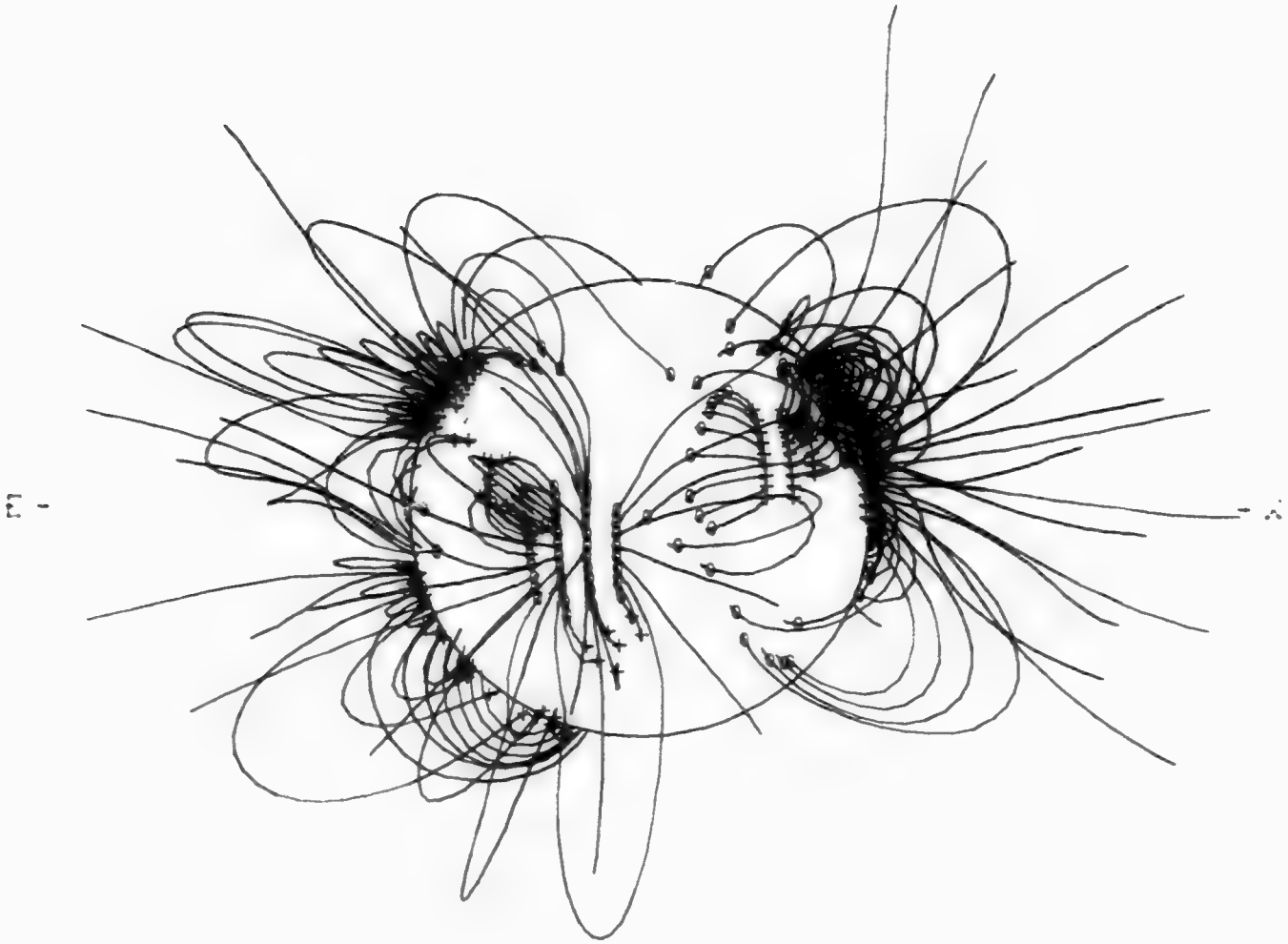
POLES DIRECT

DATA WINDOW 1544.00

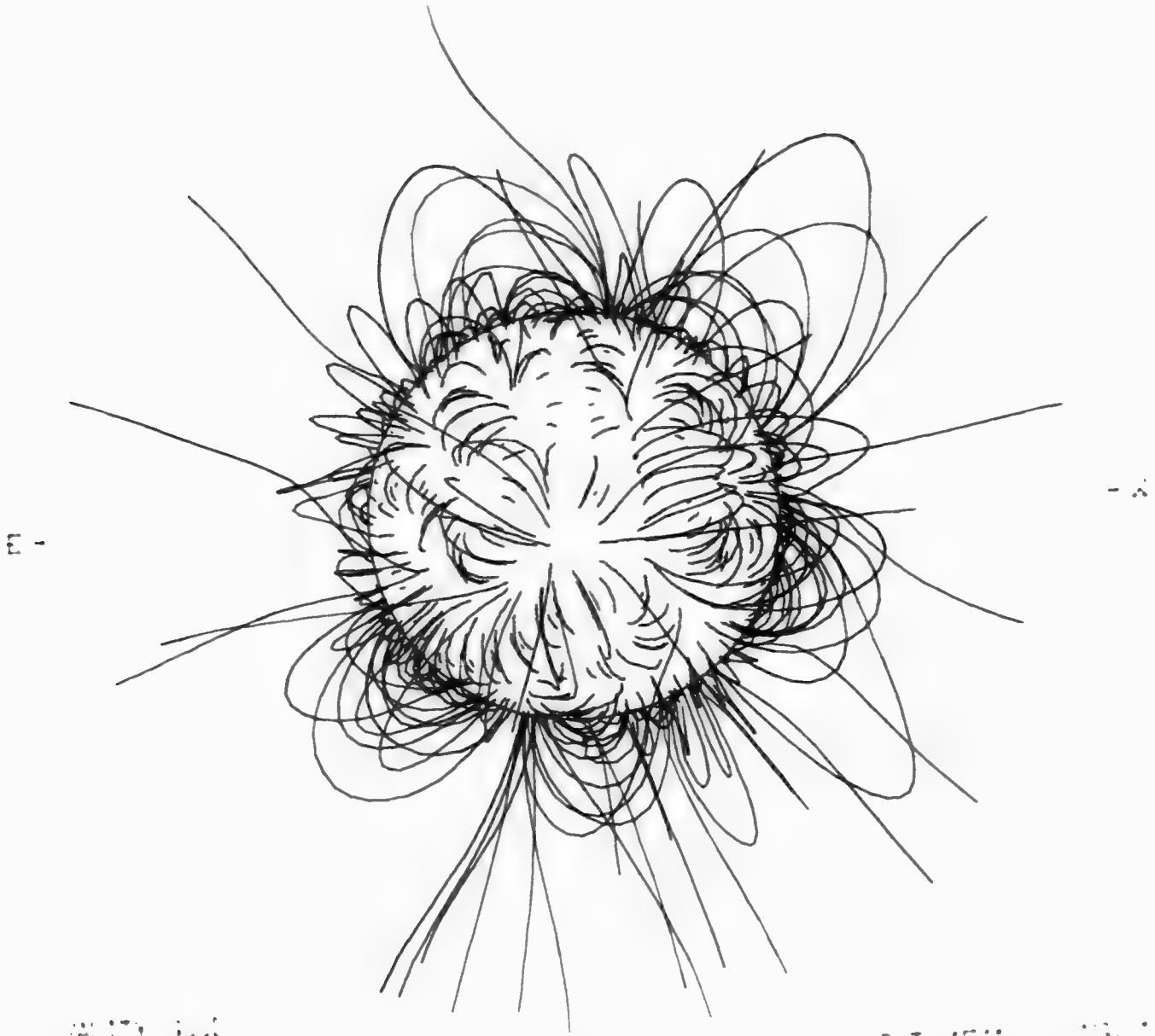
ROT. 1544 LONG. 71°

25.° 1544 .995

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

QUALITY GOOD

POLES DIRECT

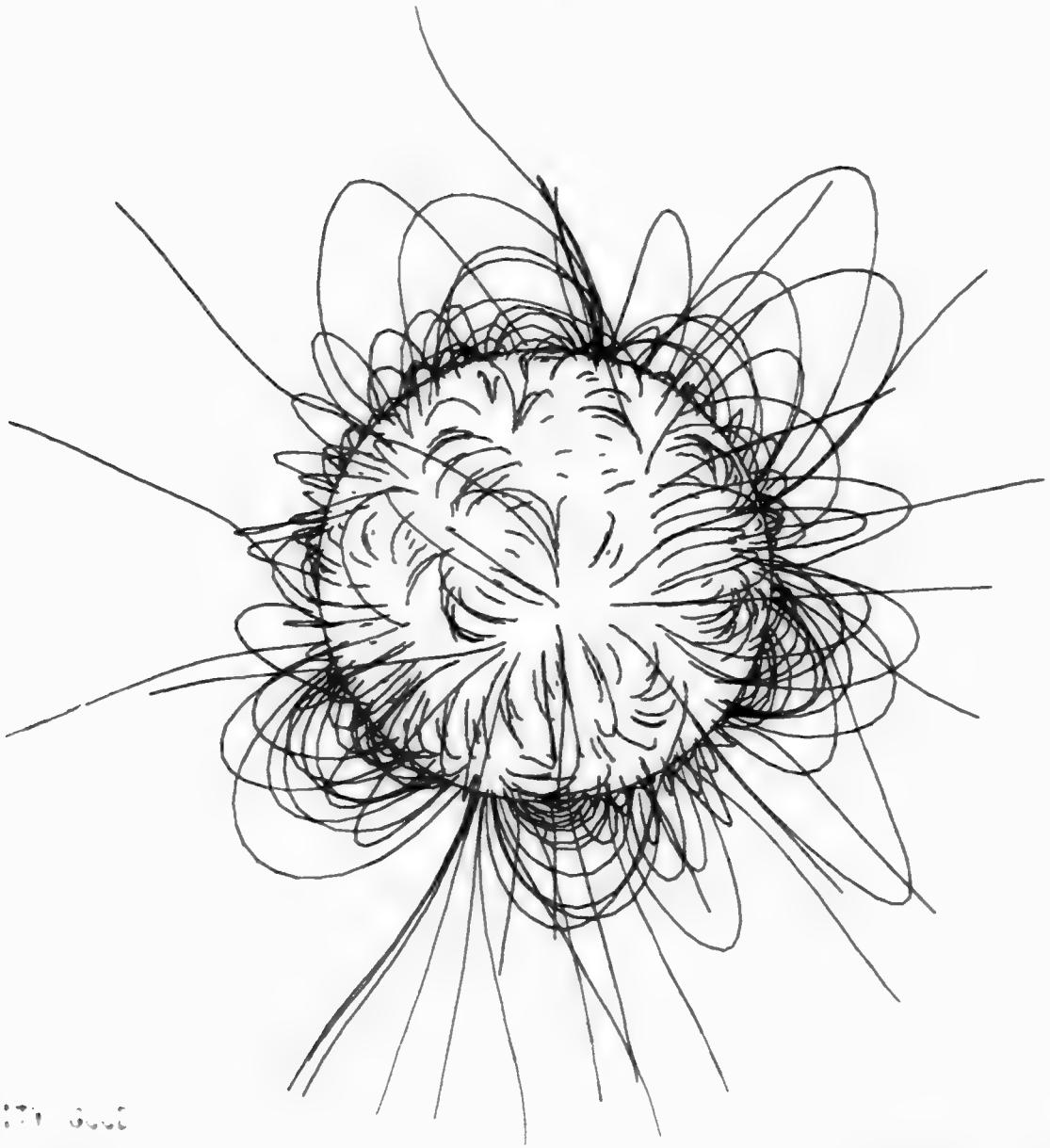
DATA [illegible]

S

E.T. [illegible]

25.[illegible]

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



QUALITY GOOD

POLES DIRECT

DATA WINDOW [illegible]

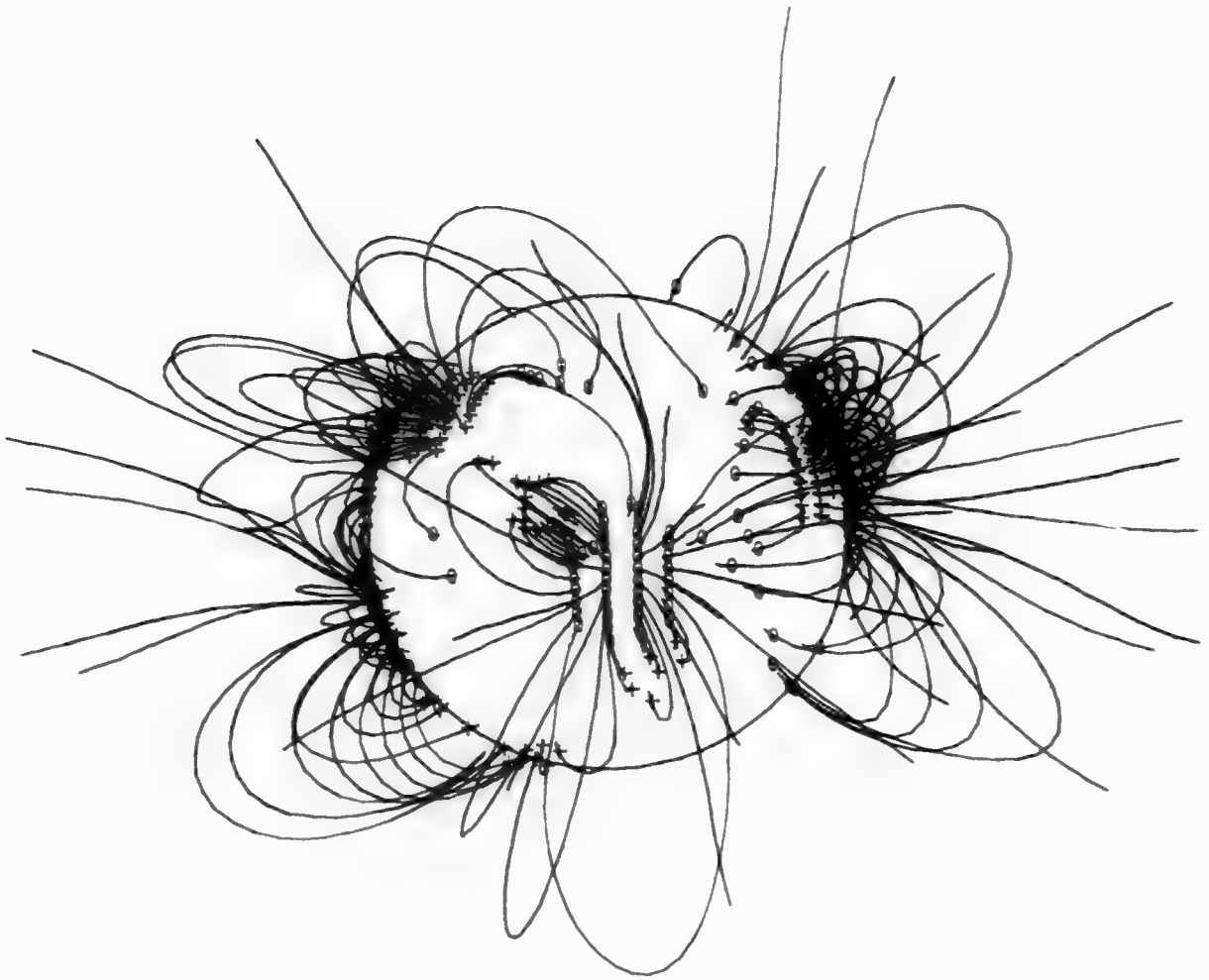
26.6 [illegible]

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N

E

S



QUALITY: [illegible]

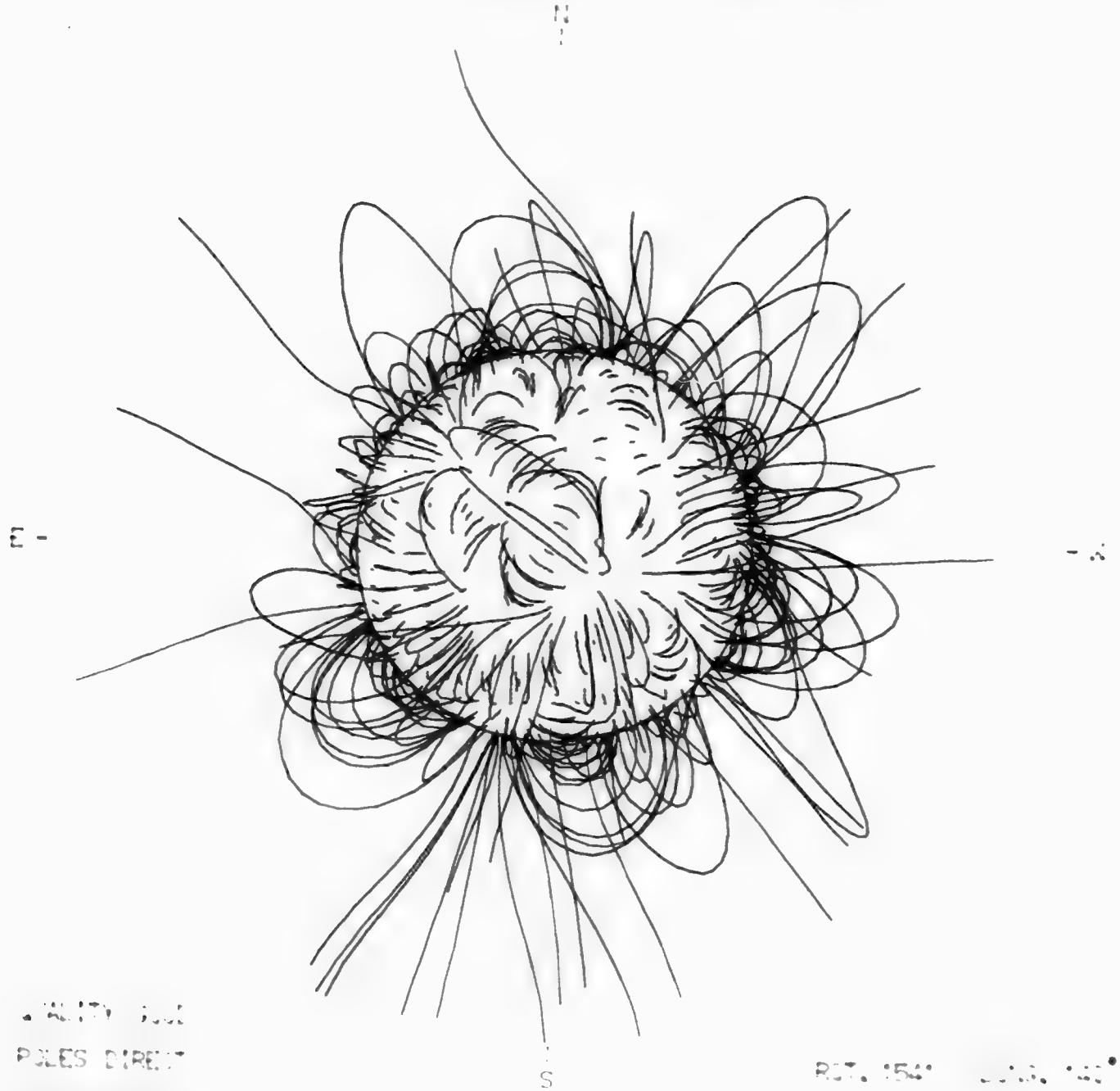
POLES DIRECT

DATA ANALYZED [illegible]

ROT. [illegible] LONG. [illegible]°

[illegible]

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

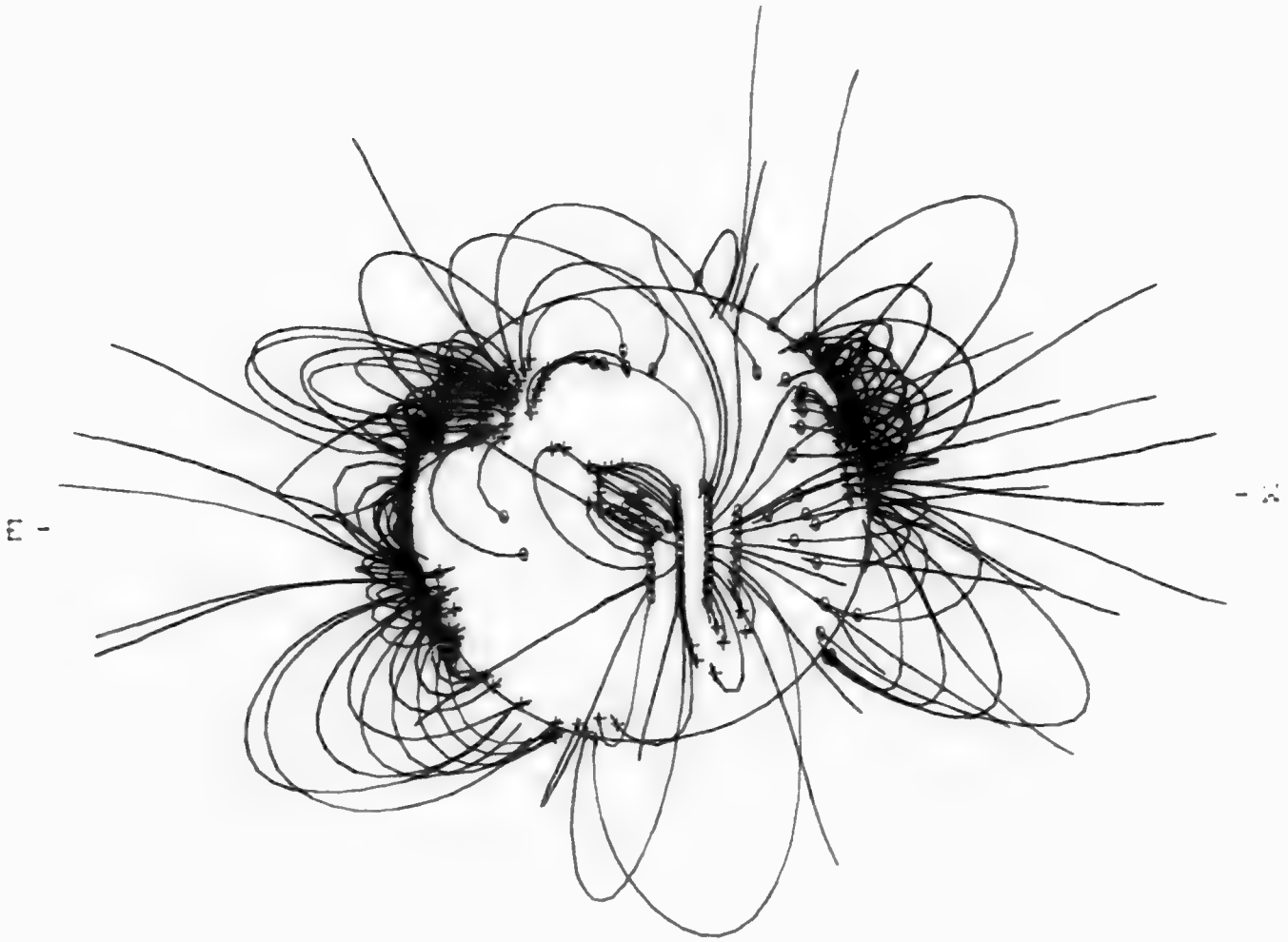


POLES DIRECT

DATA WINDOW 1541.00

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N



QUALITY GOOD

RULES DIRECT

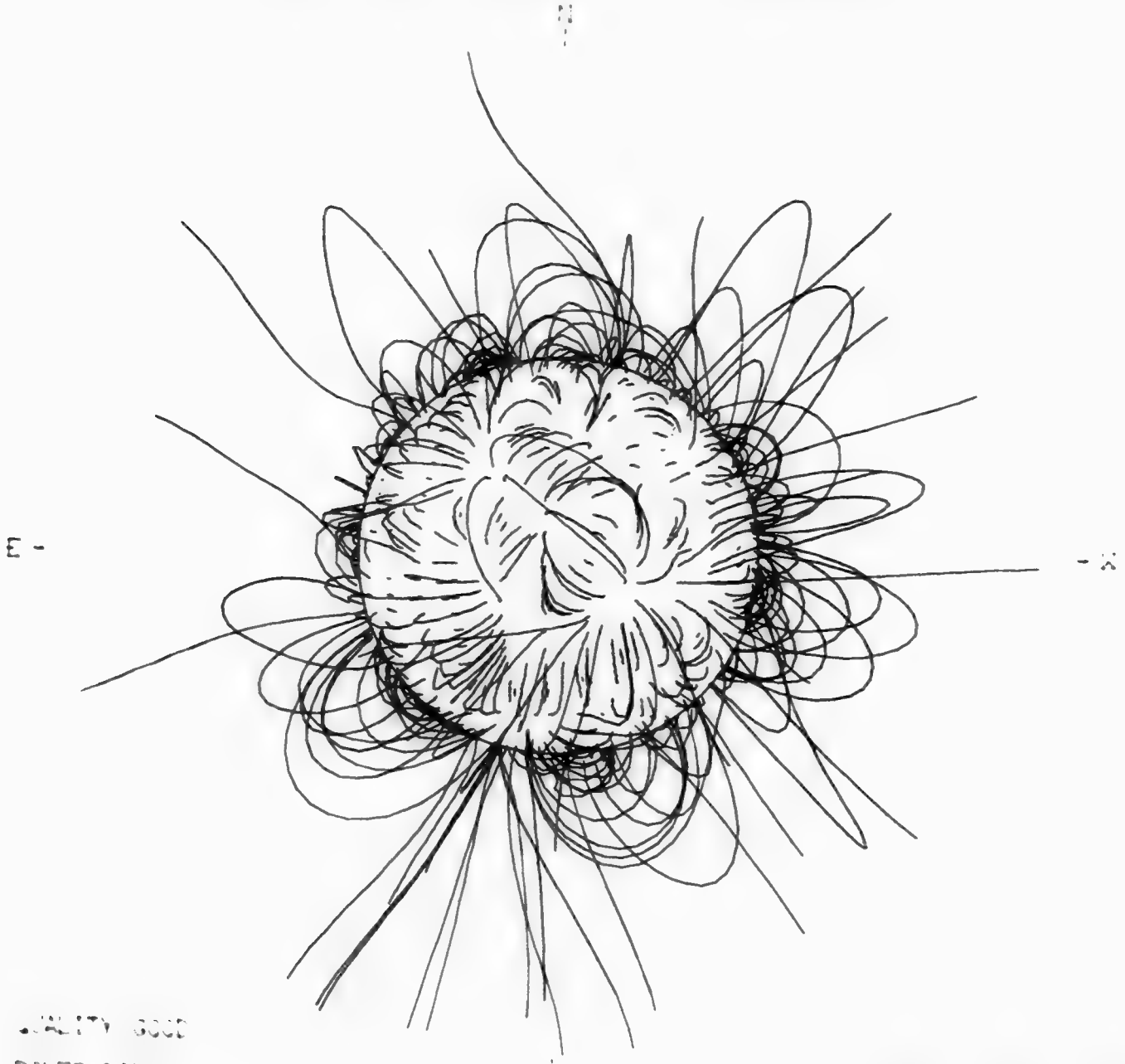
DATA WINDOW 1541.00

S

ELT. 154° [illegible]

AZ. [illegible]

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

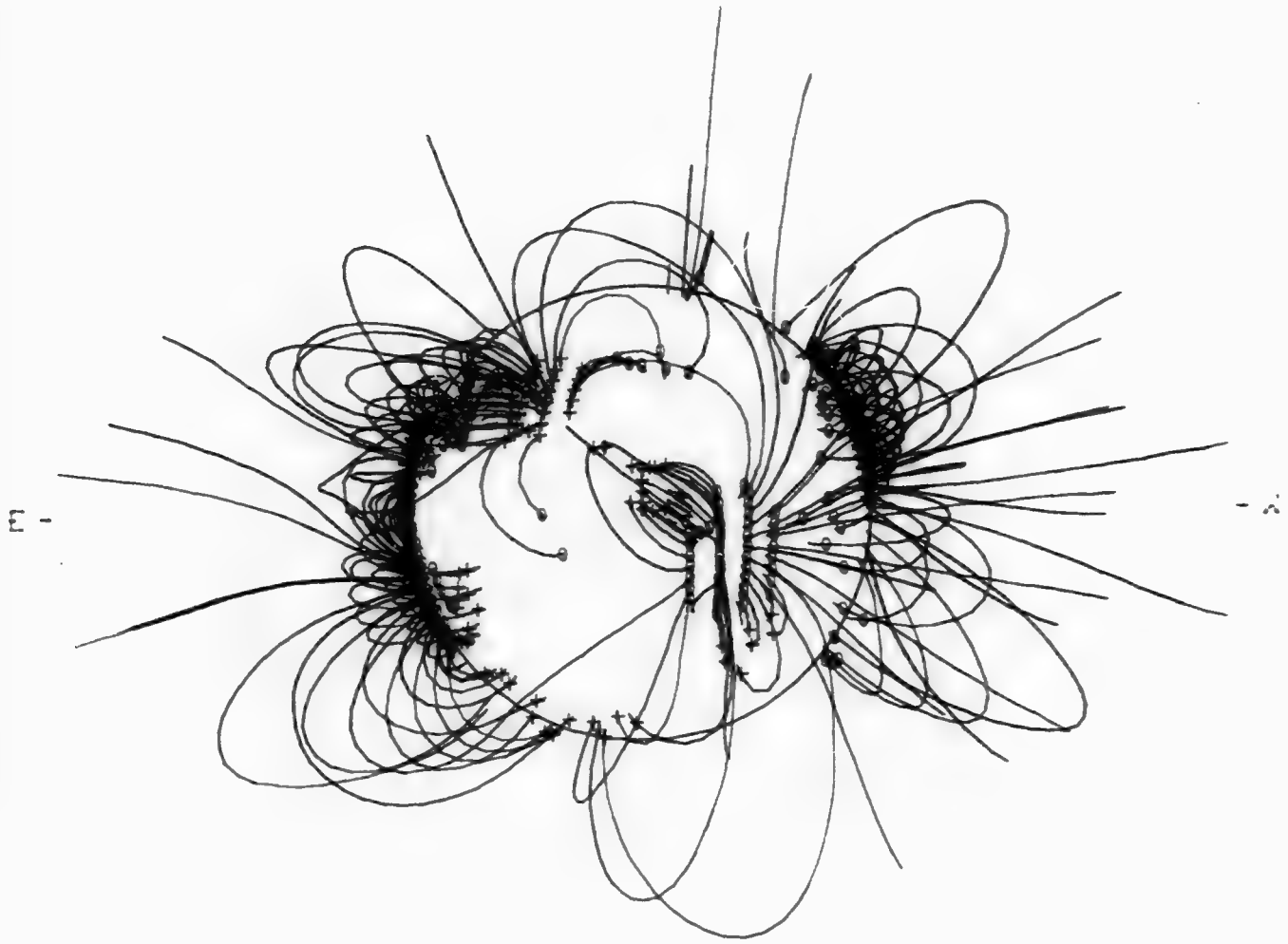


QUALITY GOOD
POLES DIRECT
DATA WINDOW 1541.00

ROT. 1541 LONG. 15°
28.2 [illegible]

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N

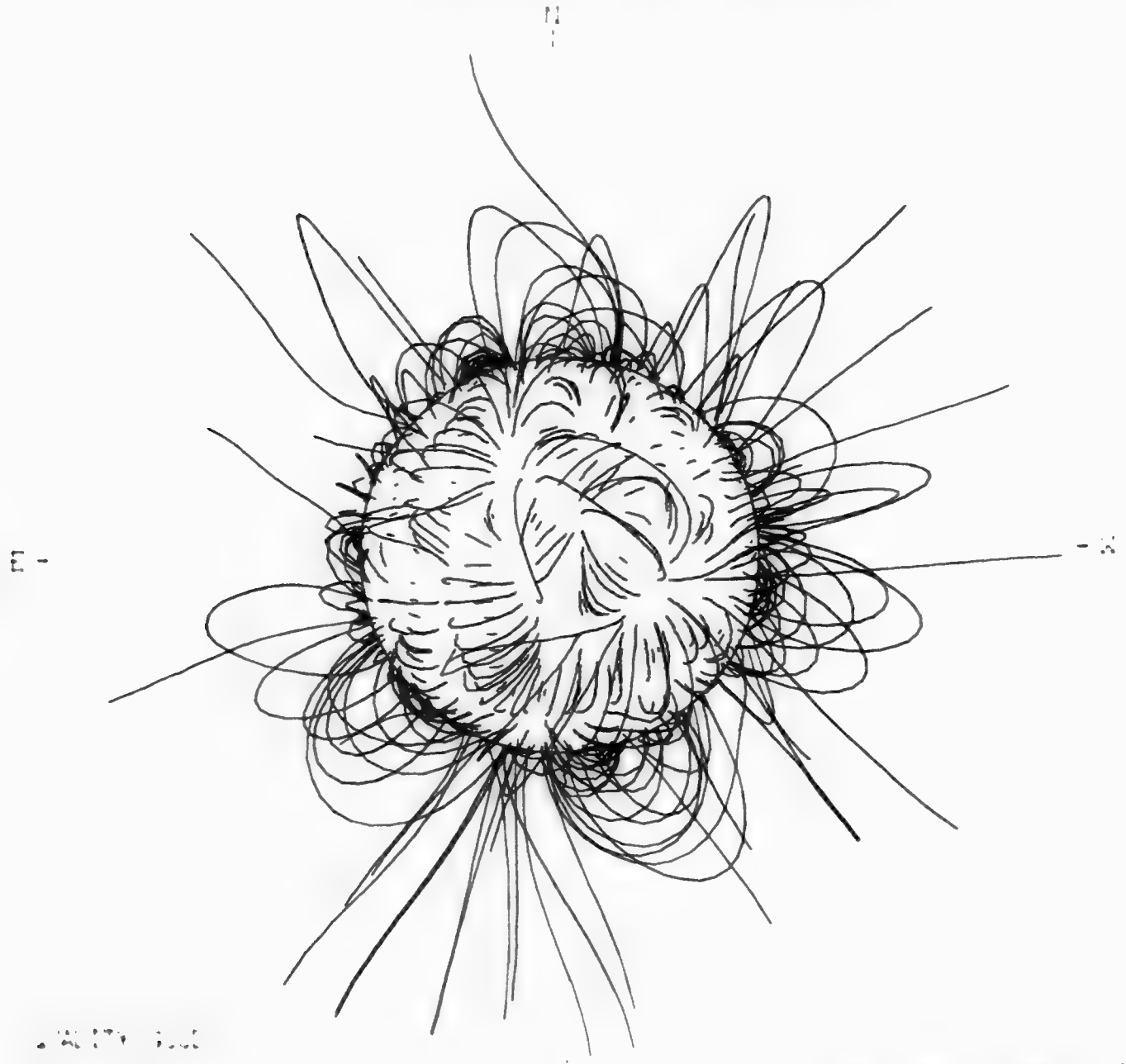


E

W

S

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



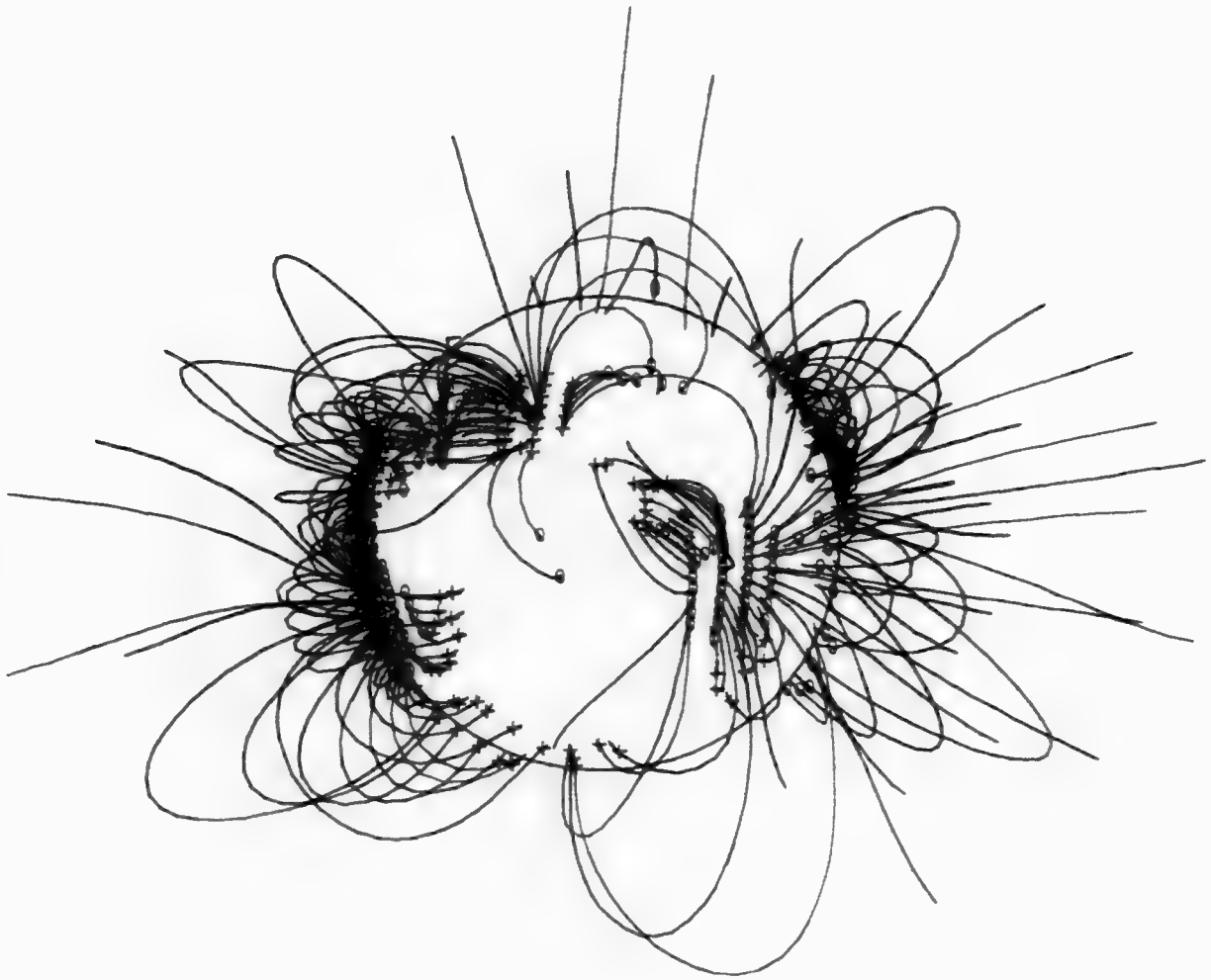
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N

E -

- W

S



POLARITY GOOD

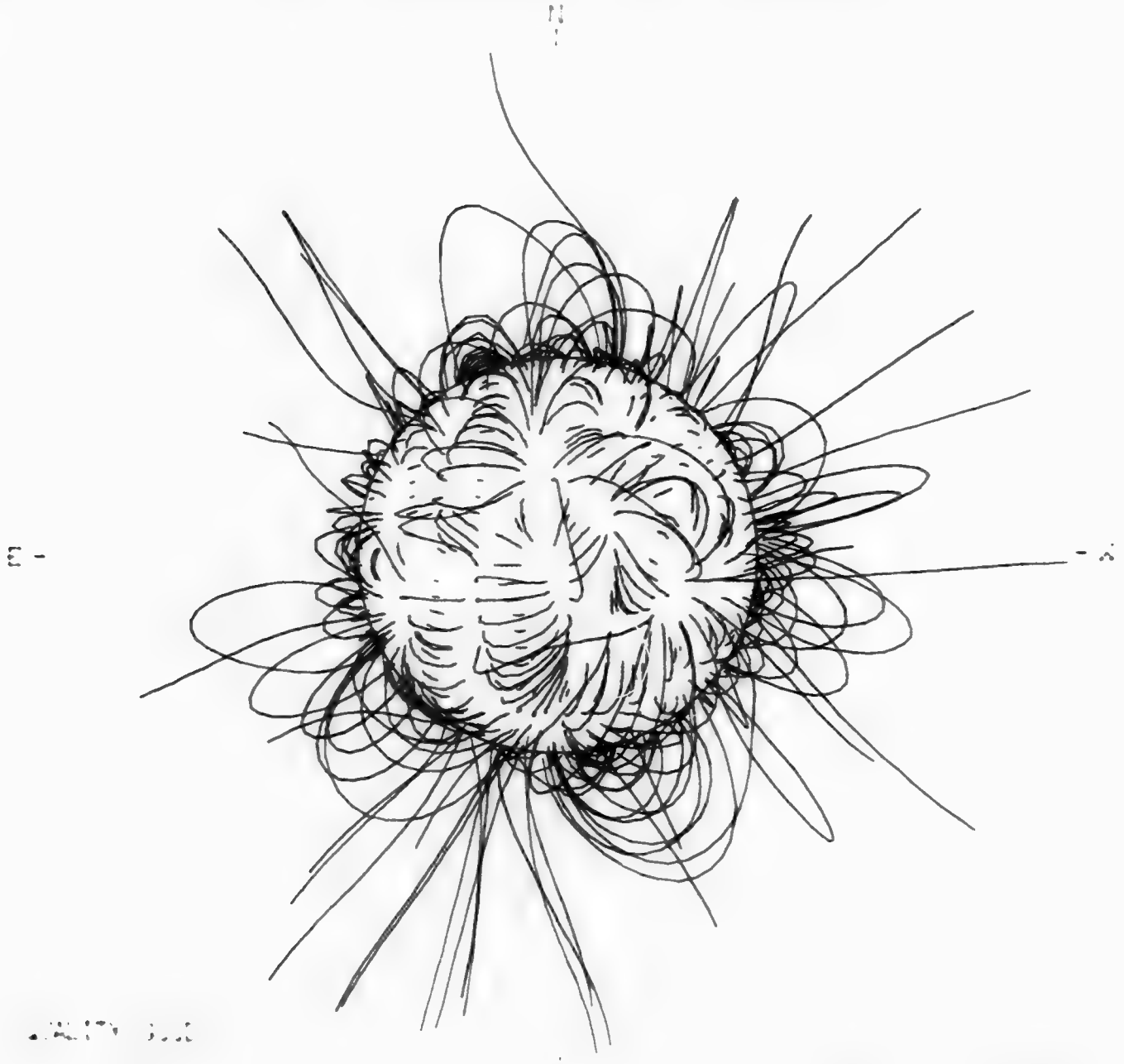
FIELDS DIRECT

DATA AVAILABLE 1541.00

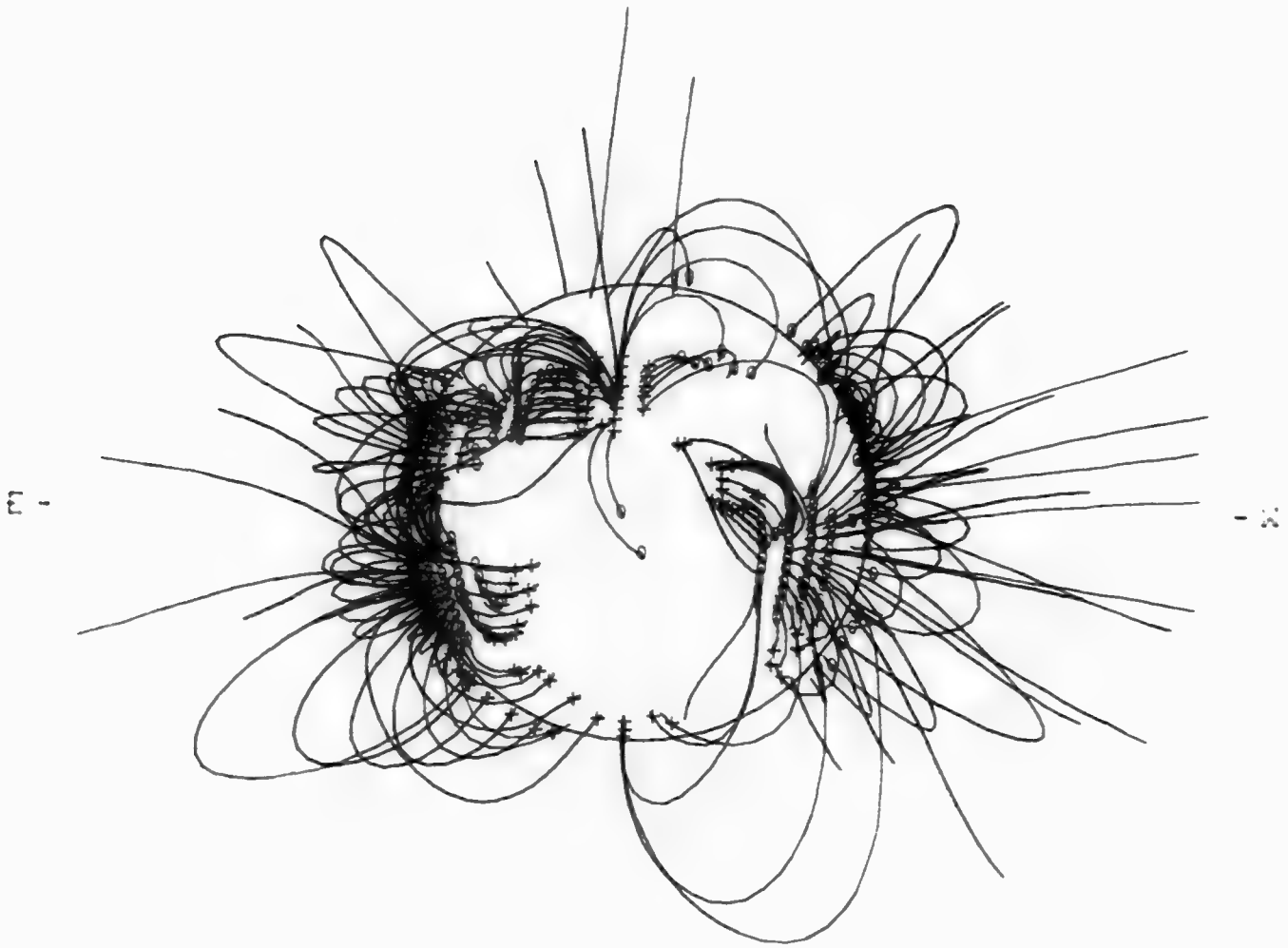
B.T. 154[illegible] LONG. [illegible]°

28.9 NOV 1968

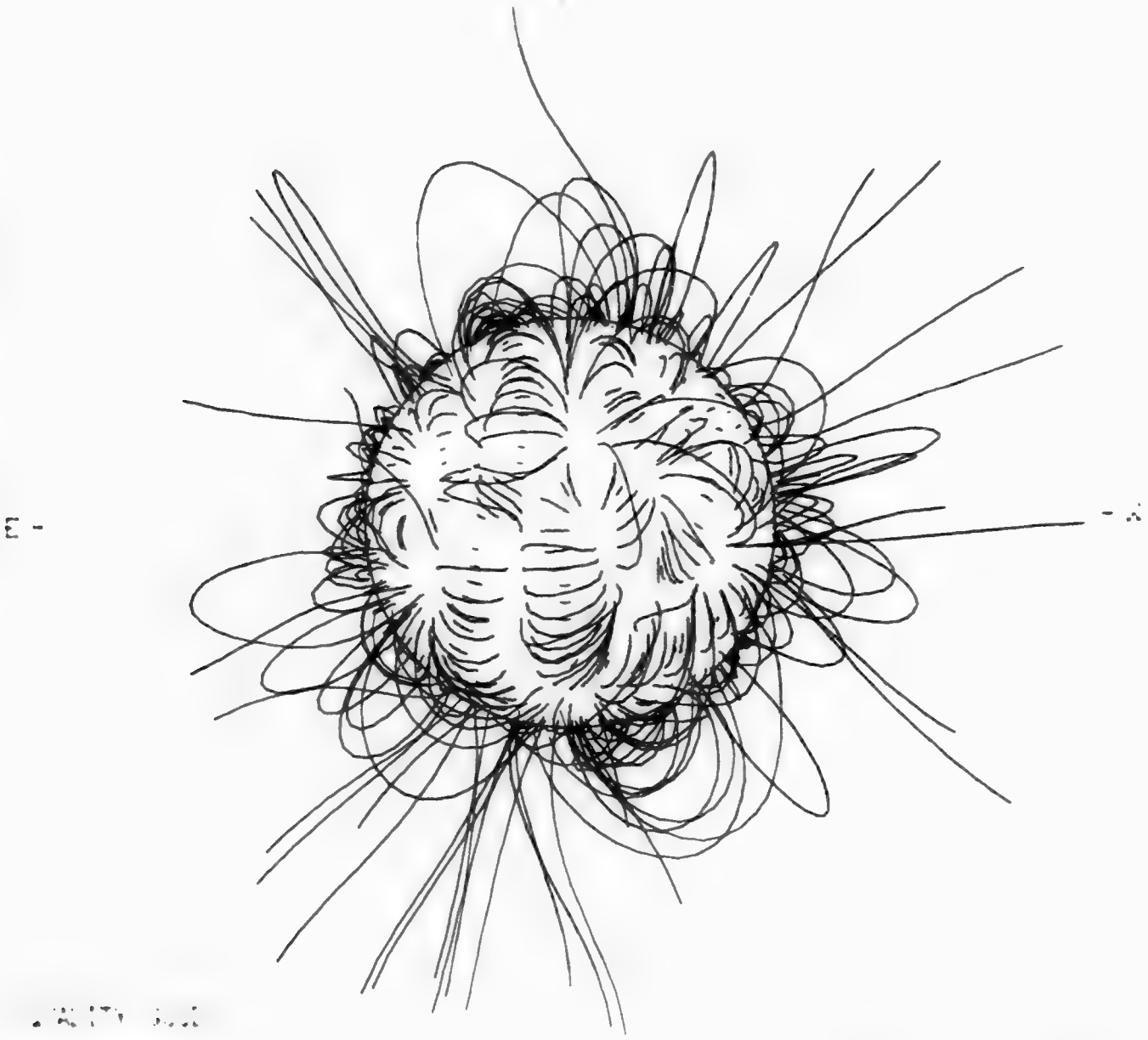
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



POLES DIRECT

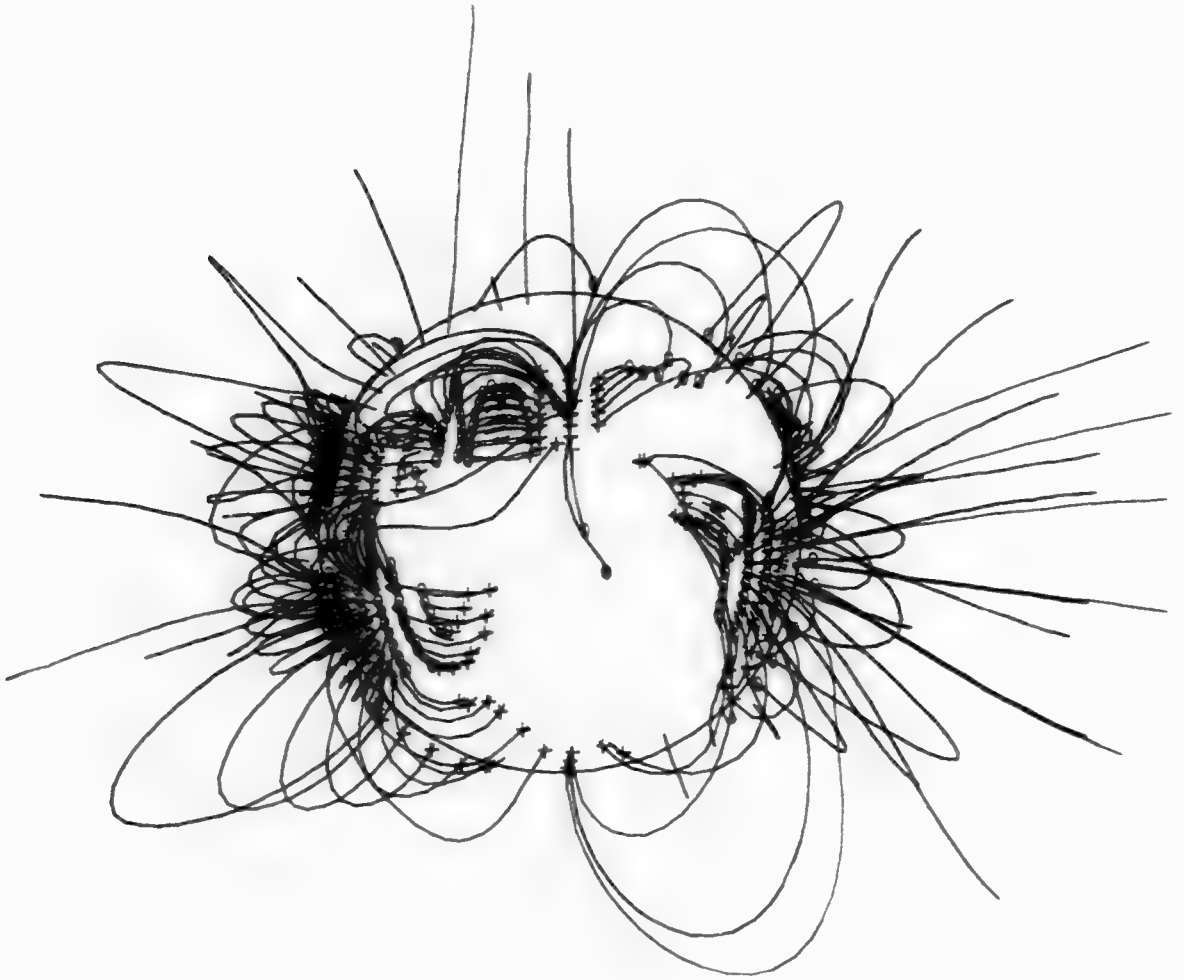
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N

E -

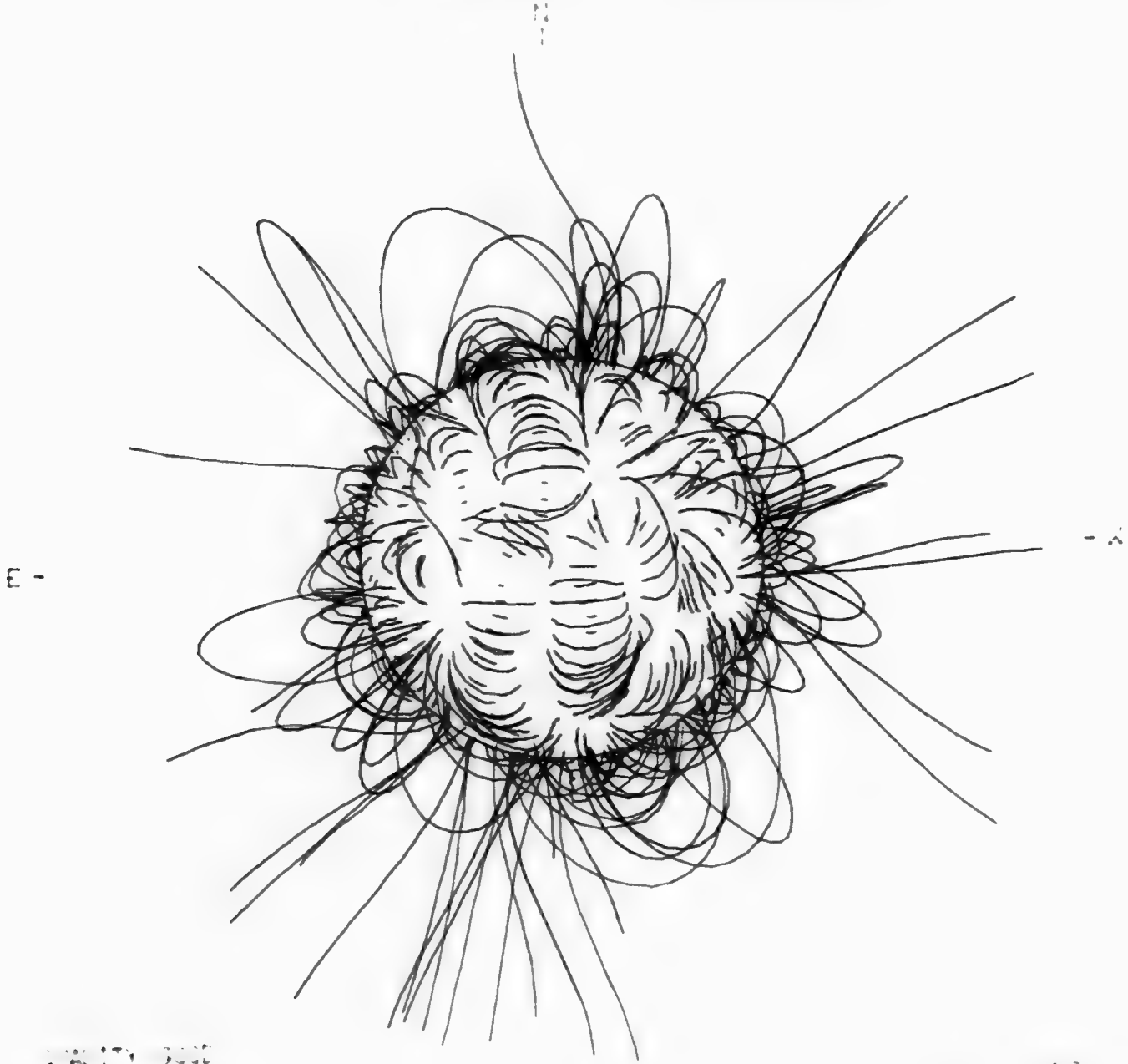
- A

S



POLES DIRECT

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

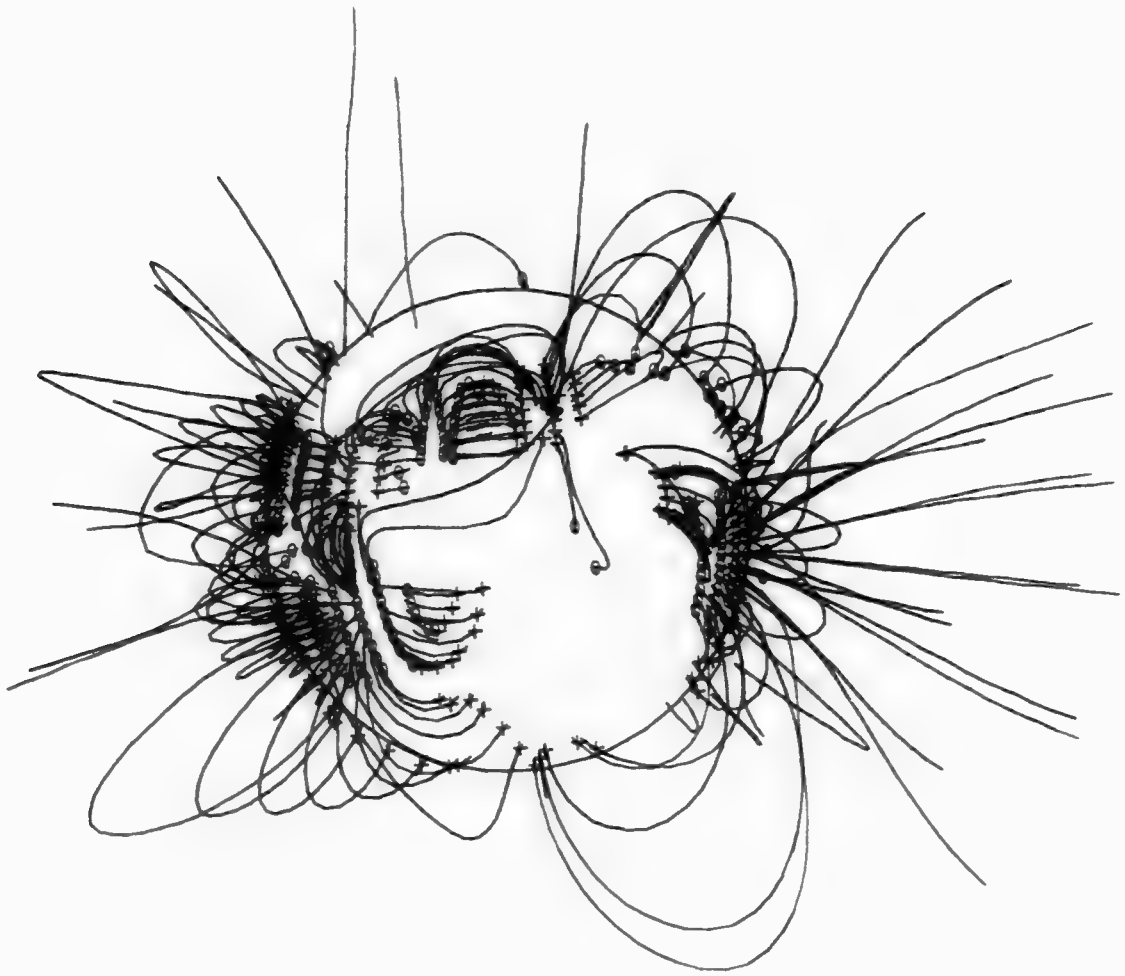


QUALITY [illegible]
POLES DIRECT
DATA WINDOW 1541.00

B.T. 154[illegible]

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N



E -

- A

S

QUALITY 3.0

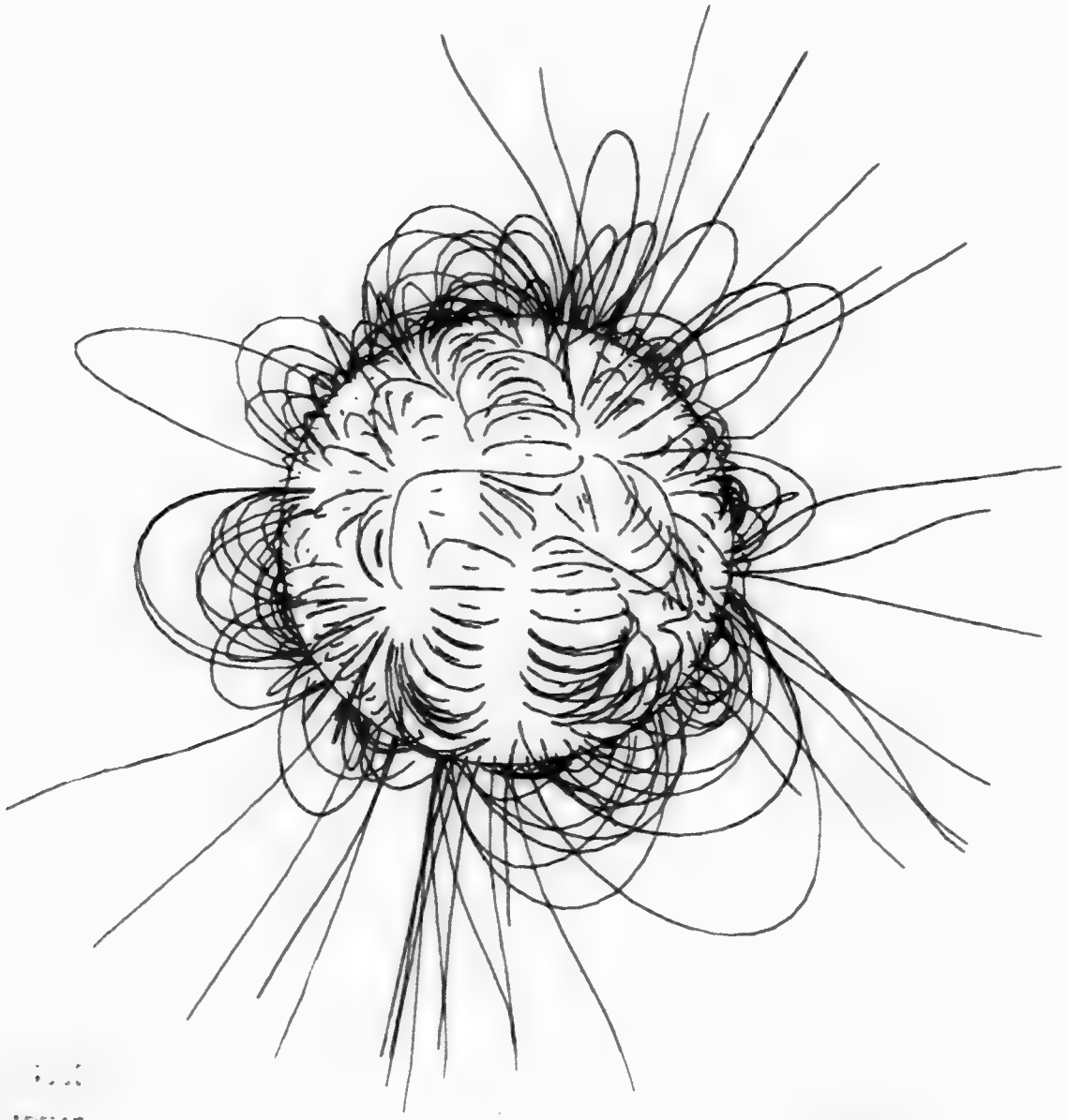
POLES DIRECT

DATA WINDOW 1541.00

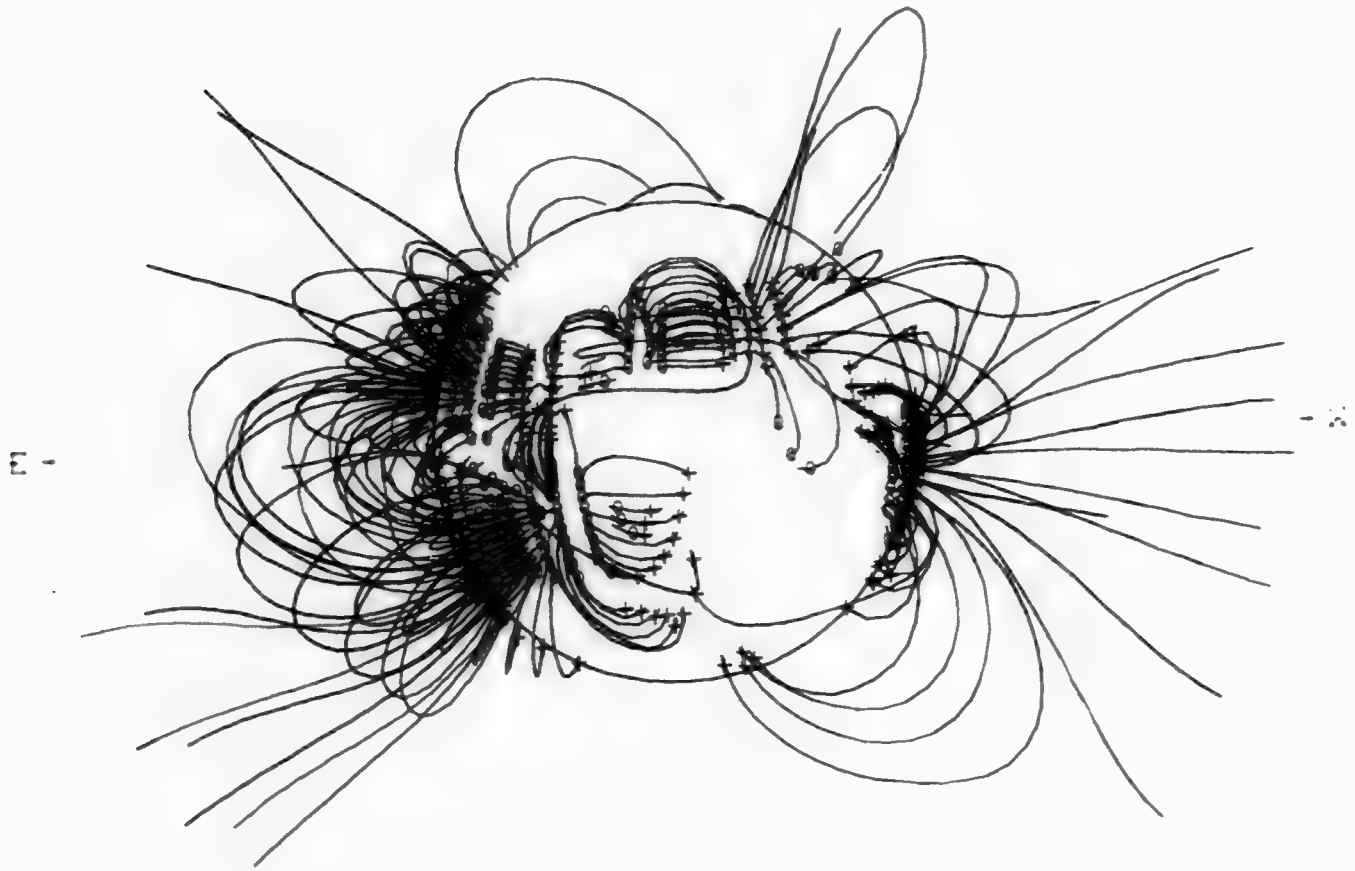
ROT. 1541 LONG. 90°

LAT. DEG. 0.00

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N

E -

- W

S

QUALITY GOOD

POLES DIRECT

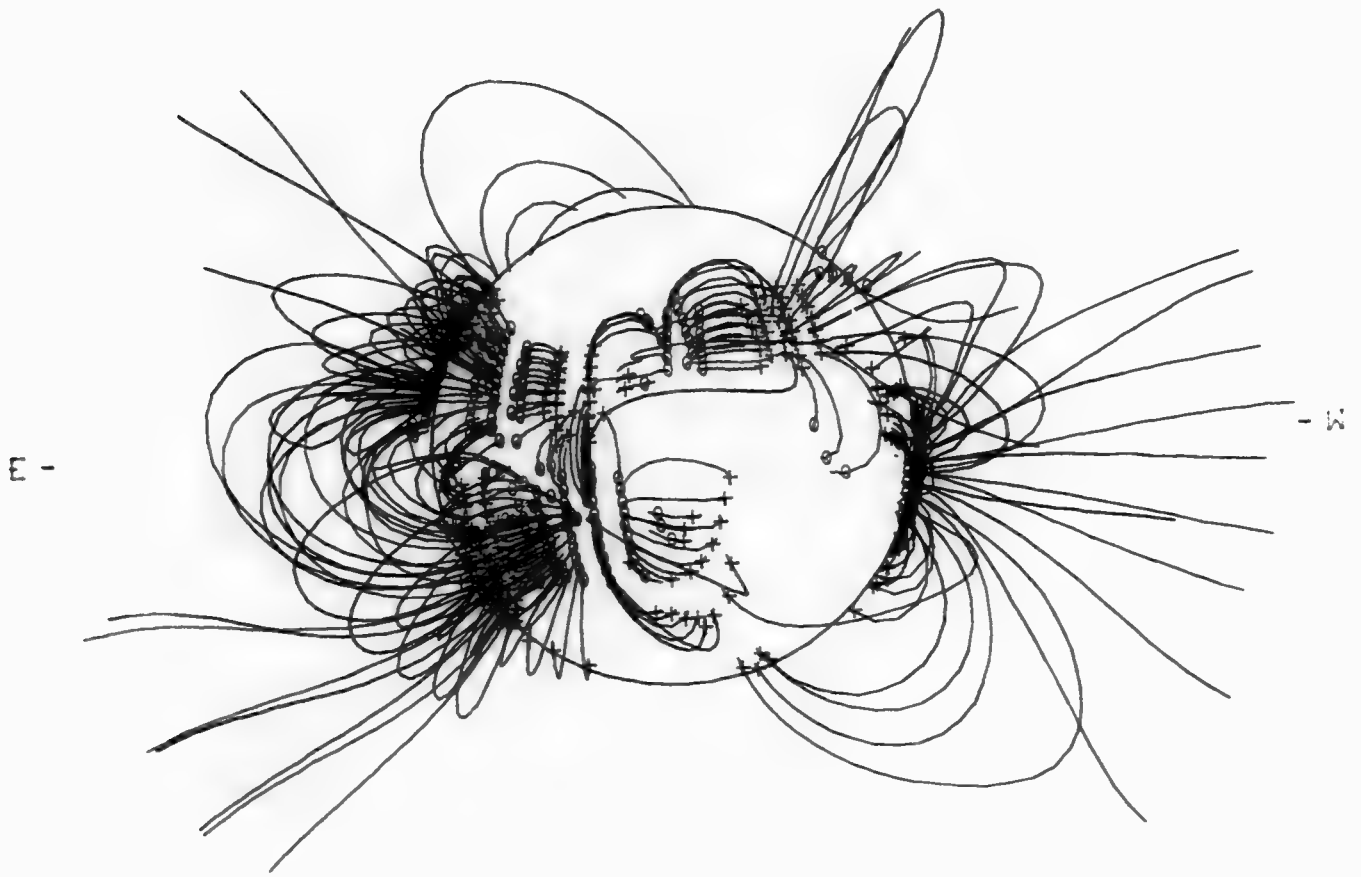
DATA WINDOW 1541.4°

ROT. 1541 [illegible]°

[illegible] DEC [illegible]

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N



S

QUALITY GOOD

POLES DIRECT

DATA WINDOW 1541.47

ROT. 1541 [illegible]

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N

E -

- W

S

QUALITY GOOD

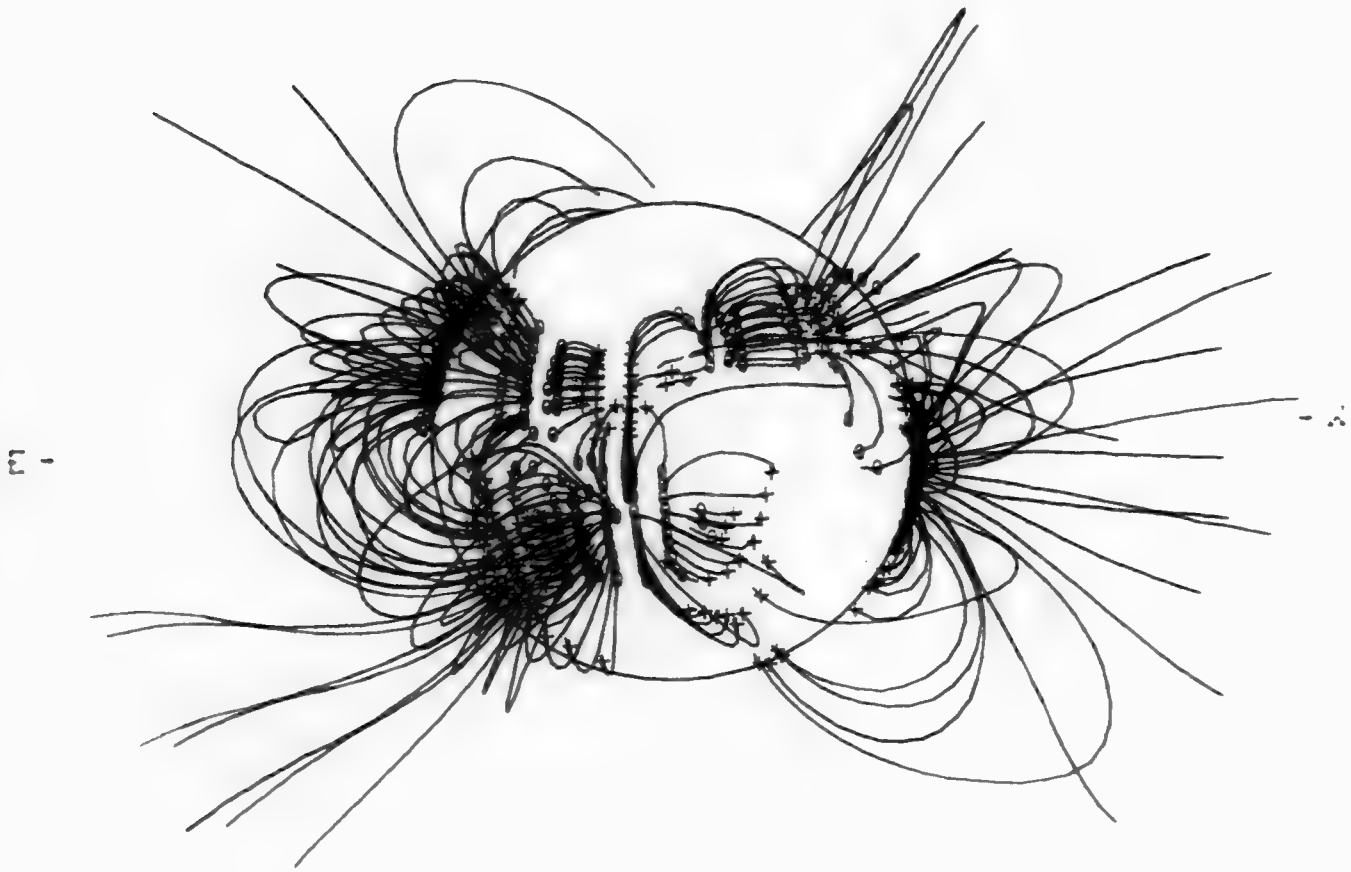
POLES DIRECT

DATA WINDOW 1544.47

ROT. 1544 LONG. 42°

3.5 SEC 1958

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



E -

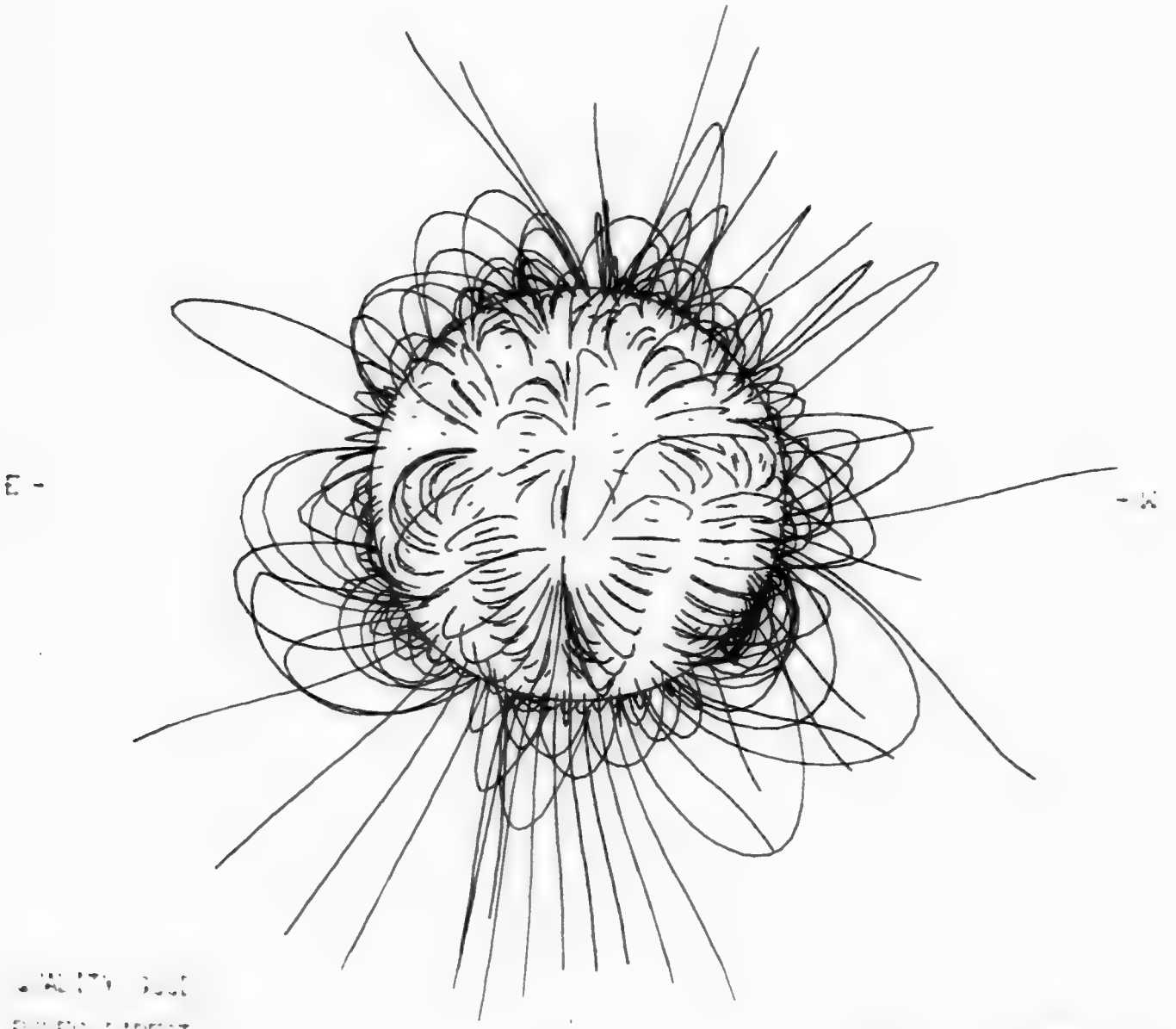
- A

S

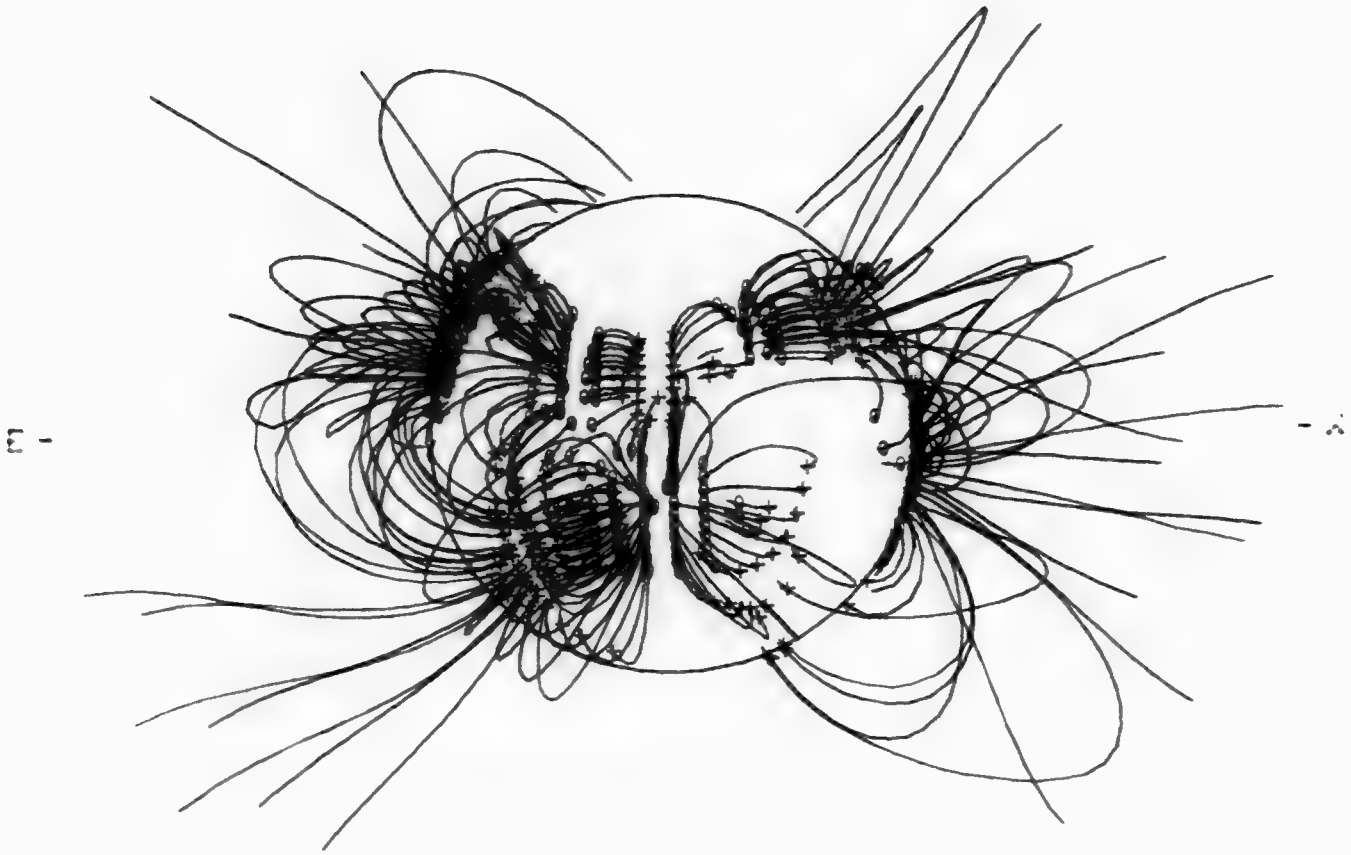
POLES DIREC

3.5 DEC

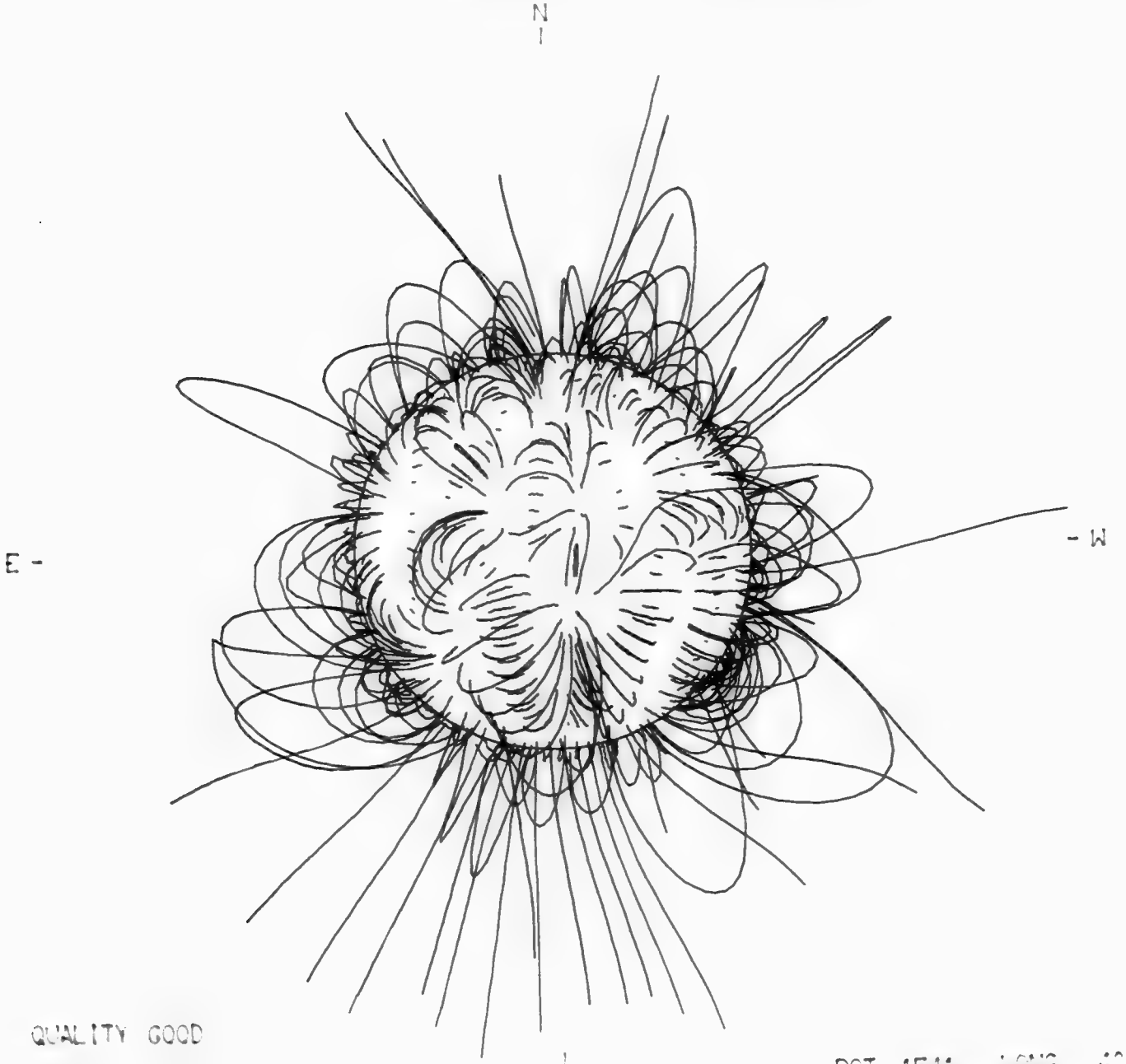
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



QUALITY GOOD

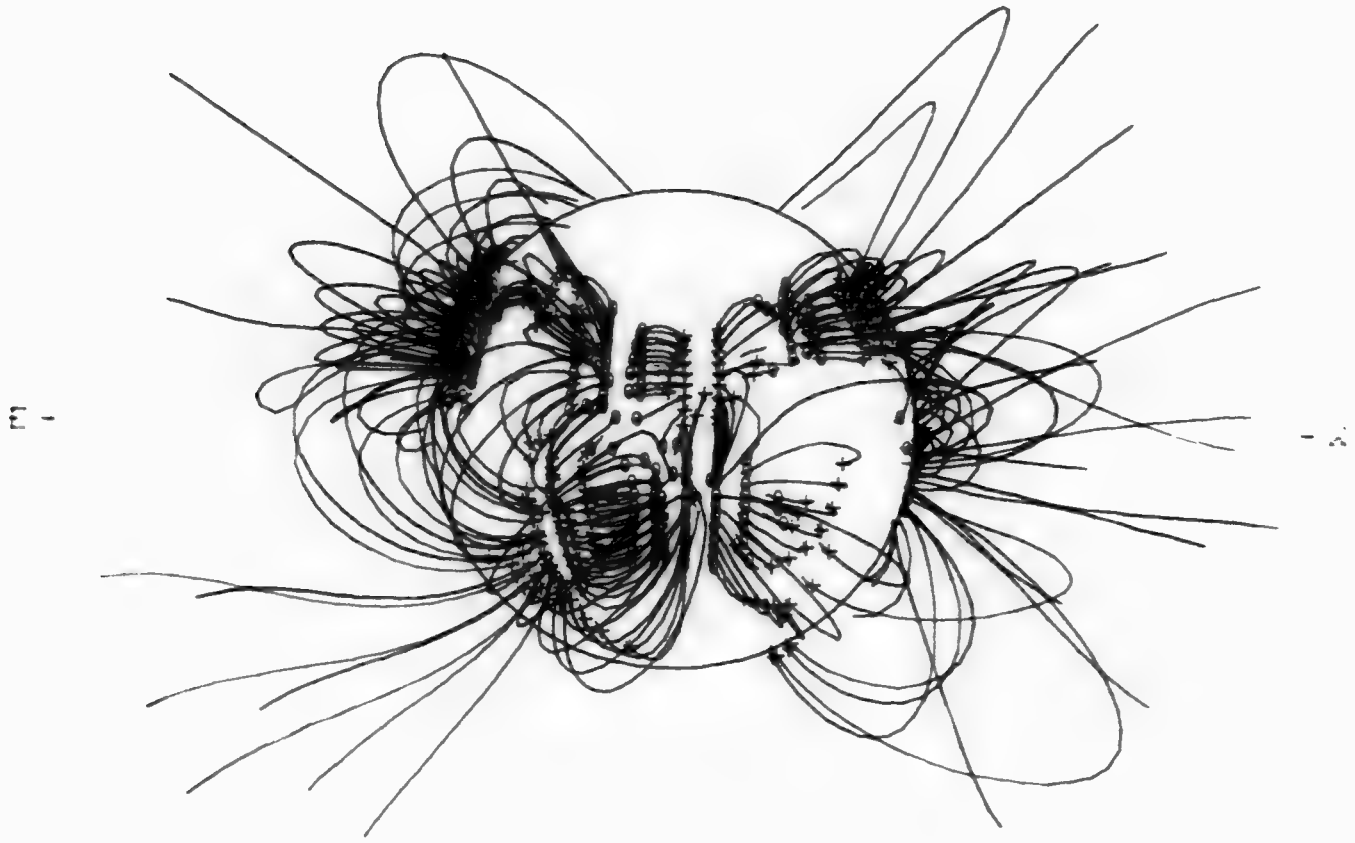
POLES DIRECT

DATA WINDOW 1541.47

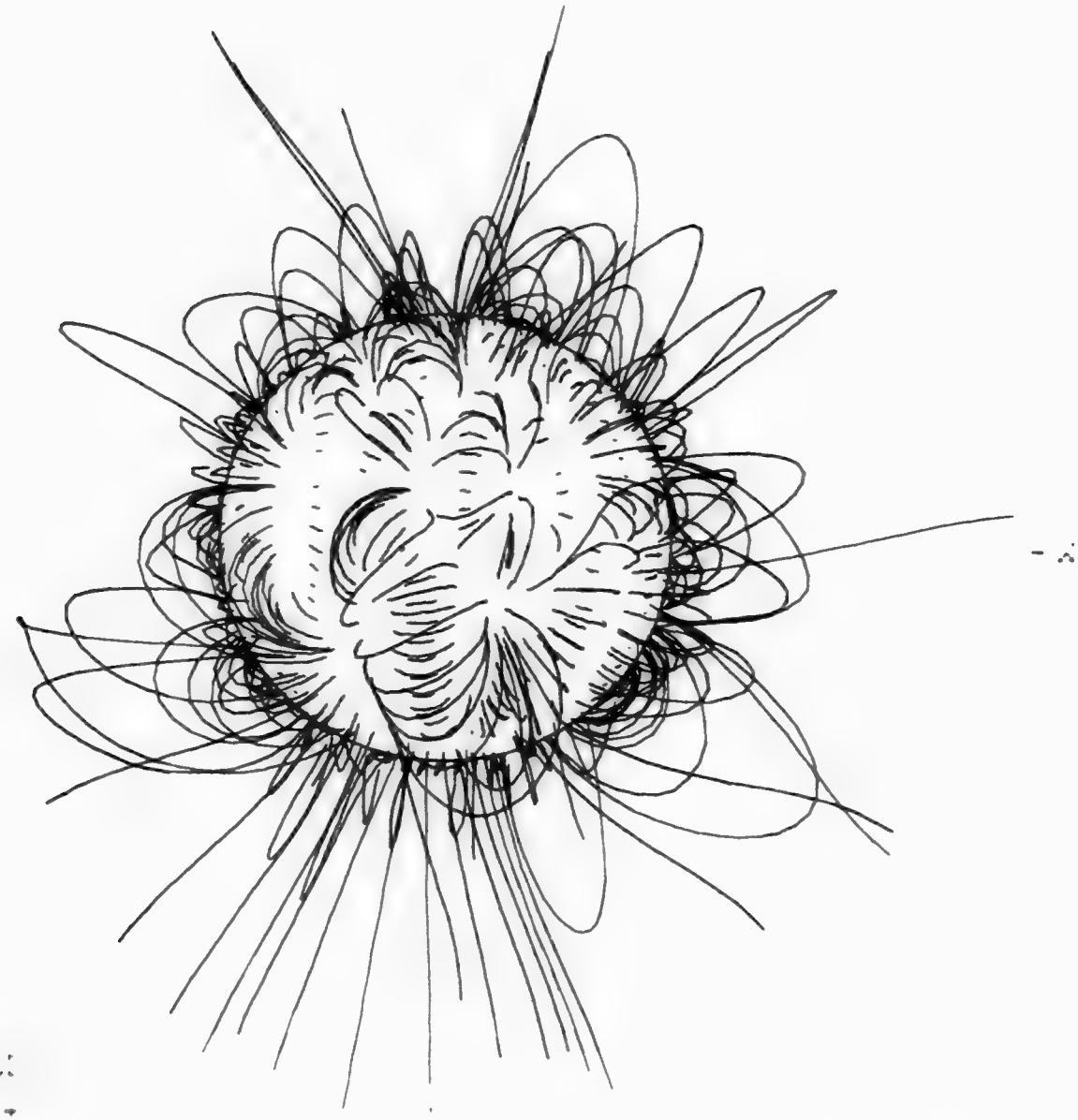
ROT. 1541 LONG. 40°

5.0 DEC 1968

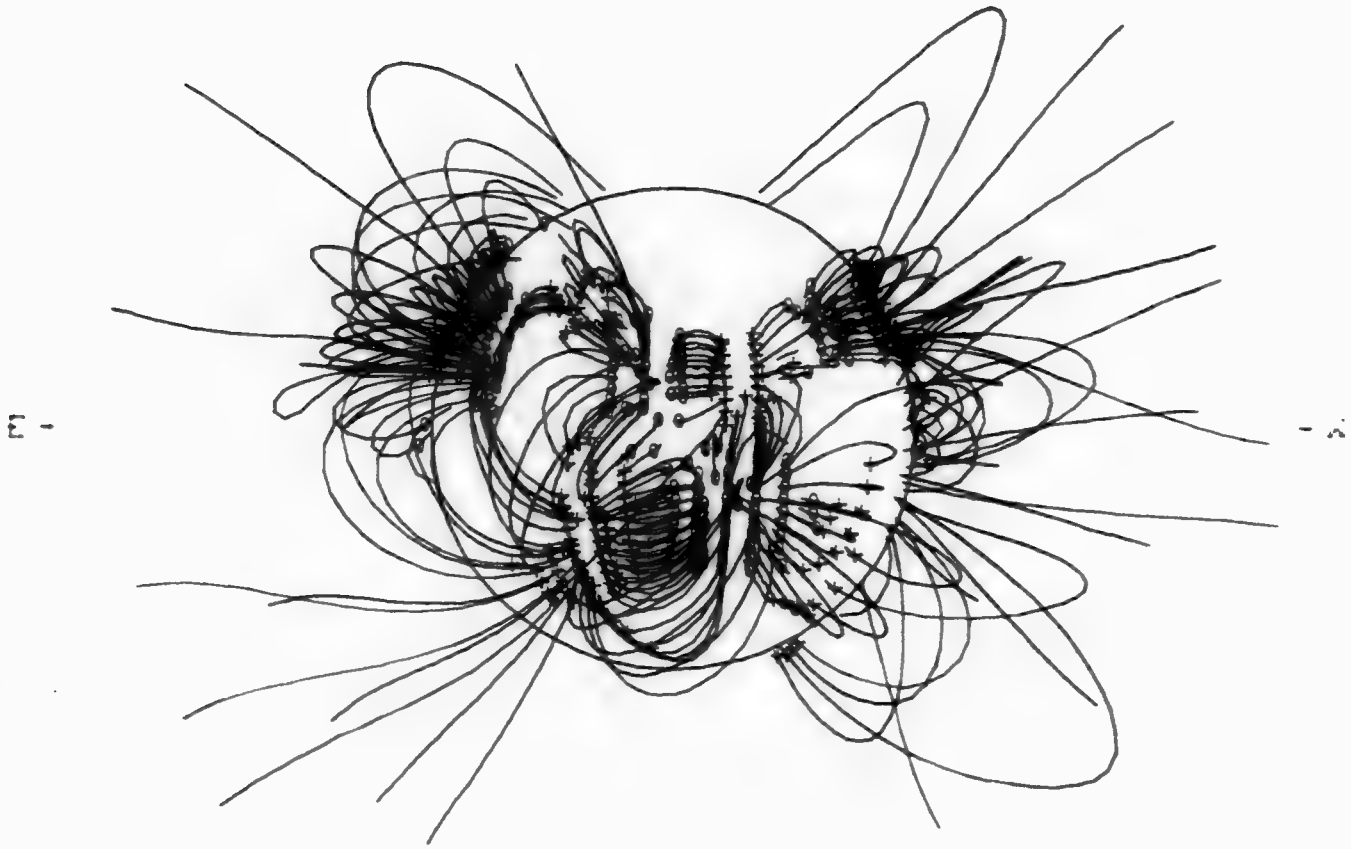
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

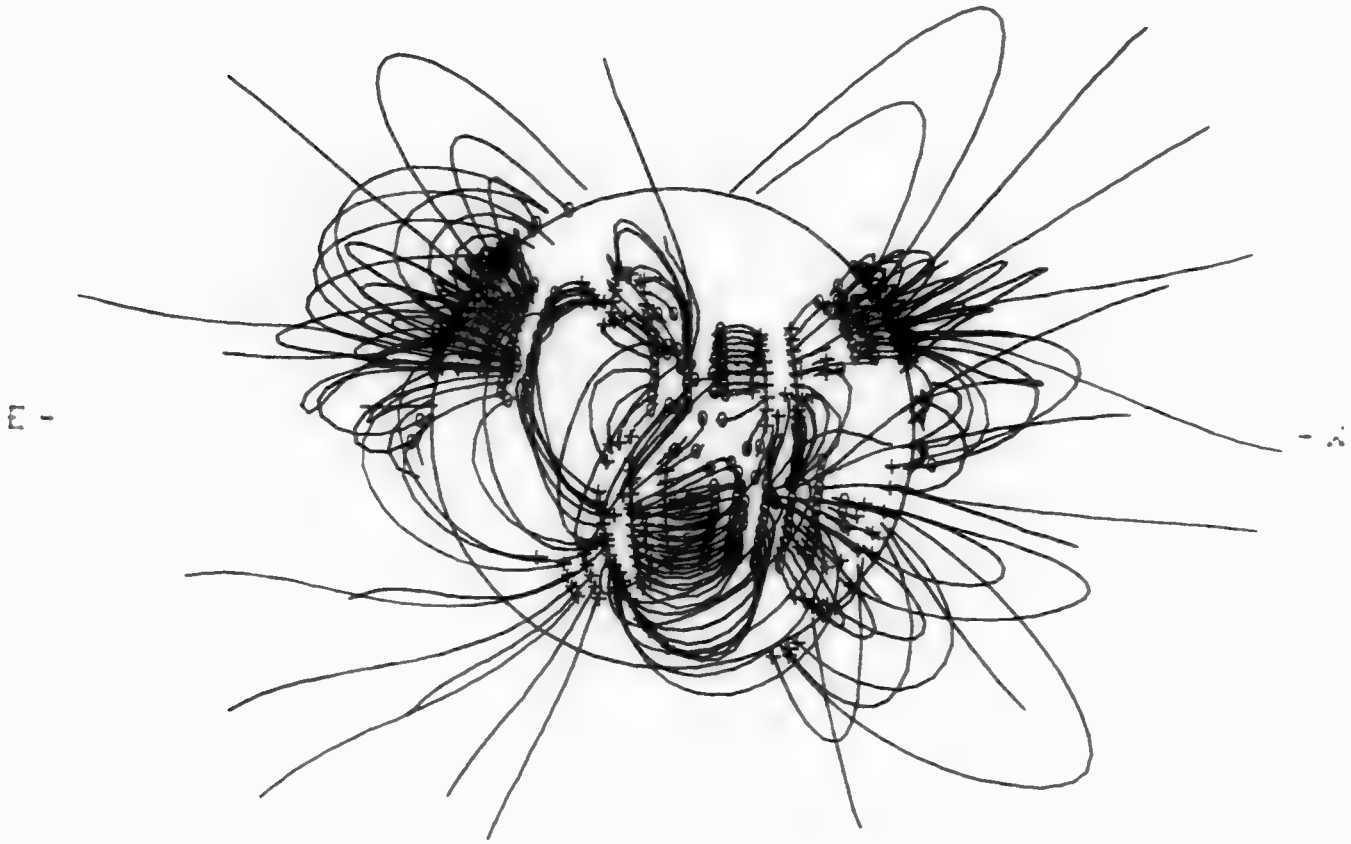


HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



QUALITY GOOD
POLES DIRECT
DATA WINDOW 1541.47

S

ROT. 1541 LONG. 21°
6.5 DEG

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N

E -

- W

S

QUALITY GOOD

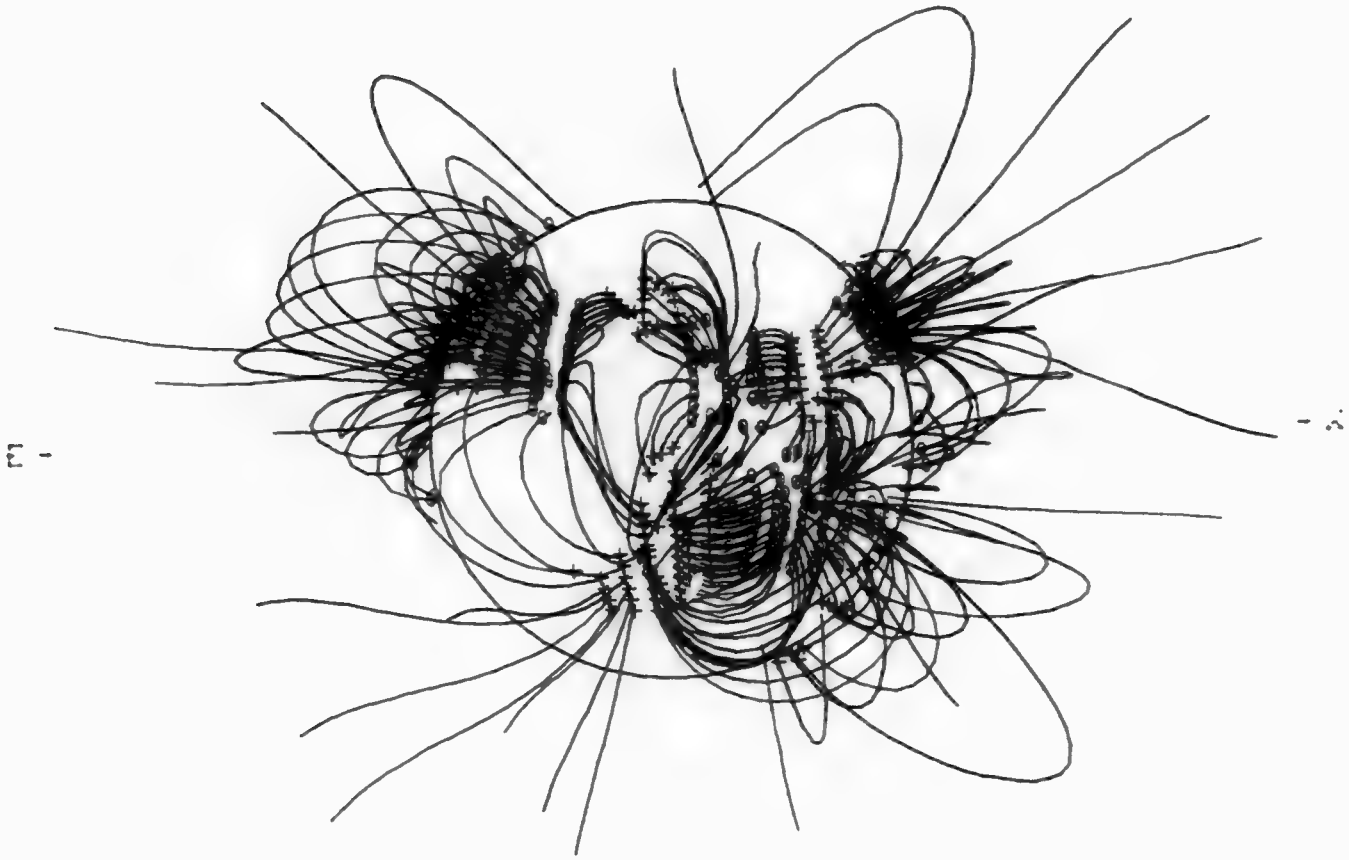
POLES DIRECT

DATA WINDOW [illegible]

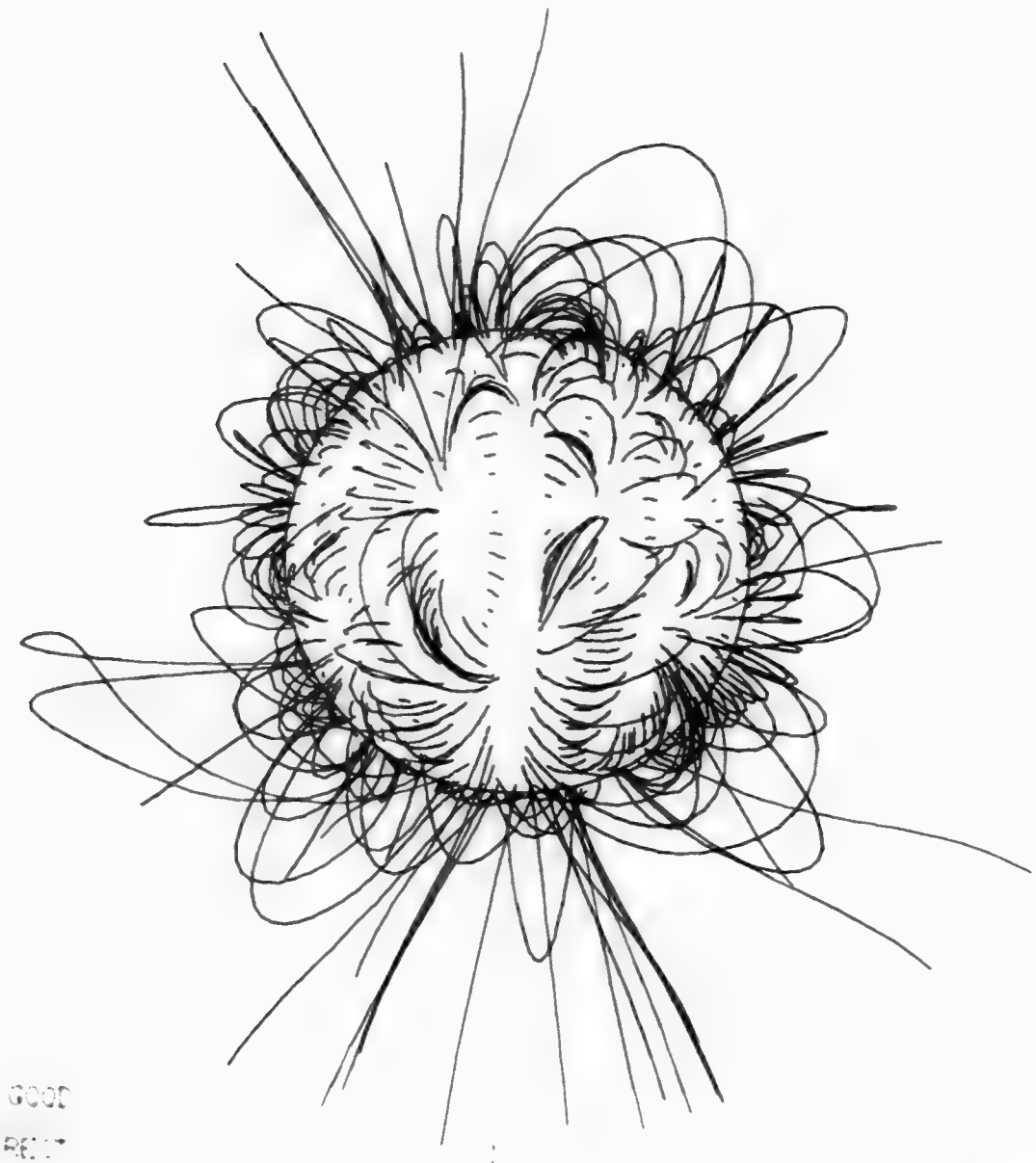
ROT. [illegible] LONG. [illegible]°

[illegible] DEG [illegible]

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



E -

- W

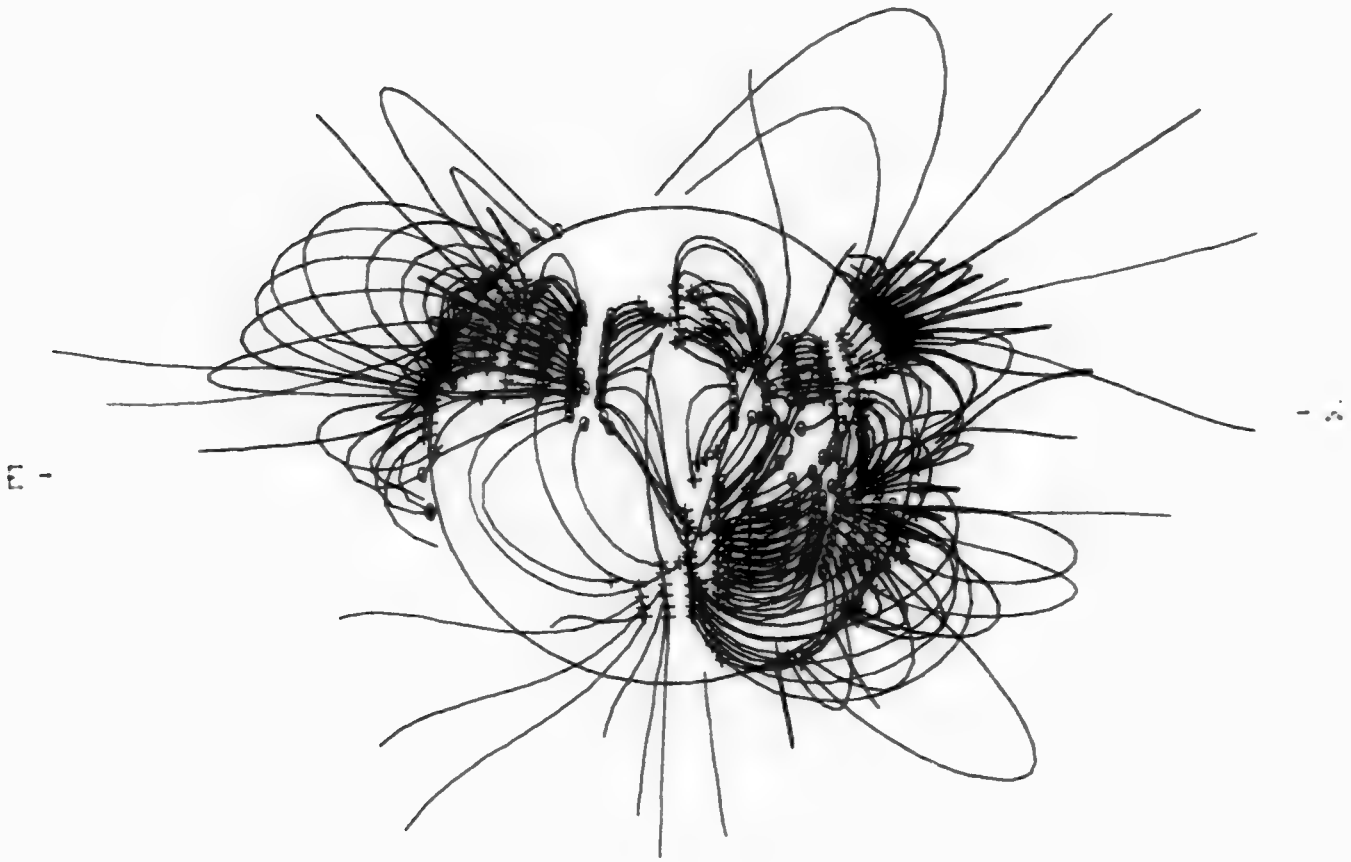
S

QUALITY GOOD

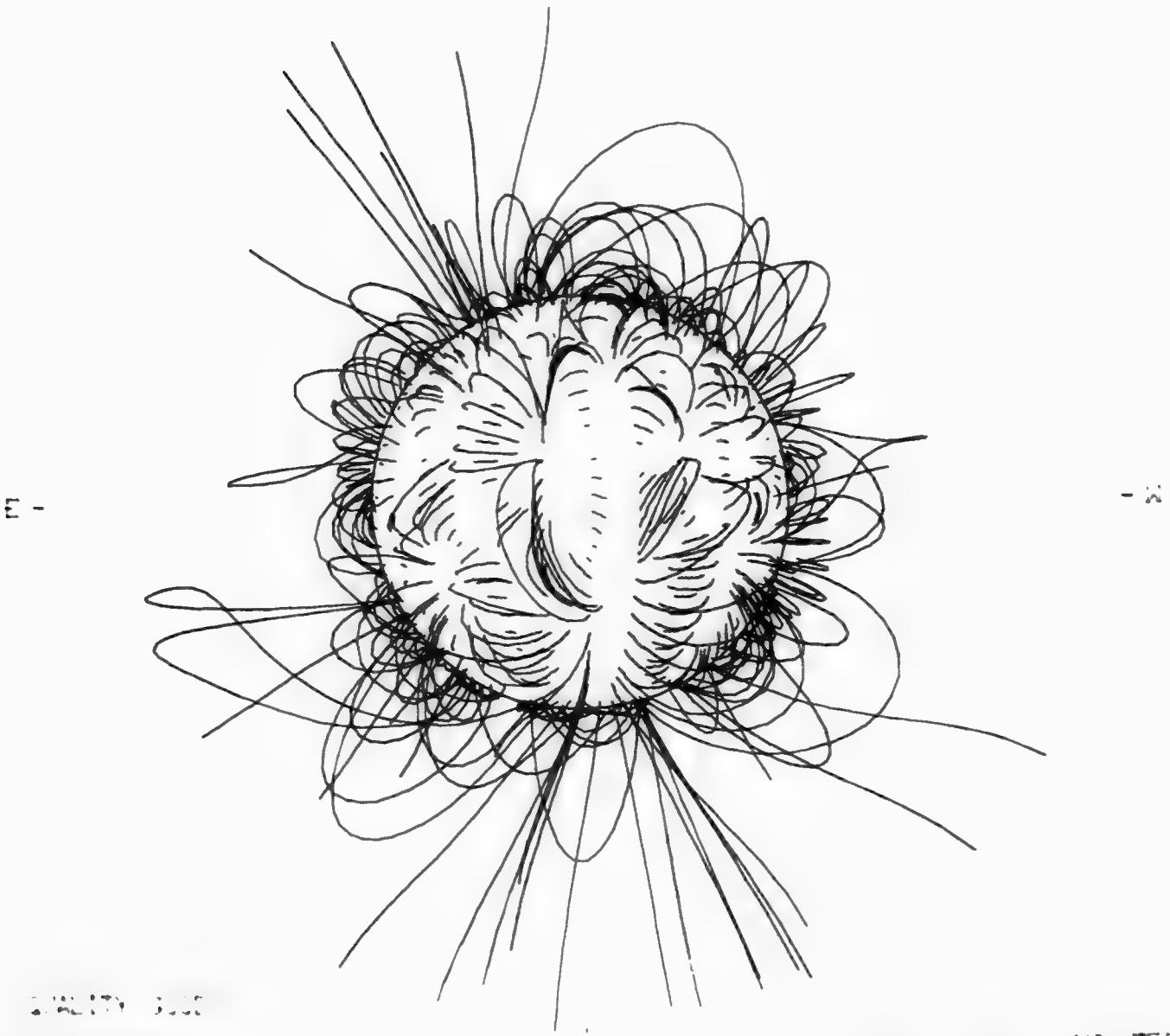
PULSES DIRECT

DATA WINDOW 1541.4"

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

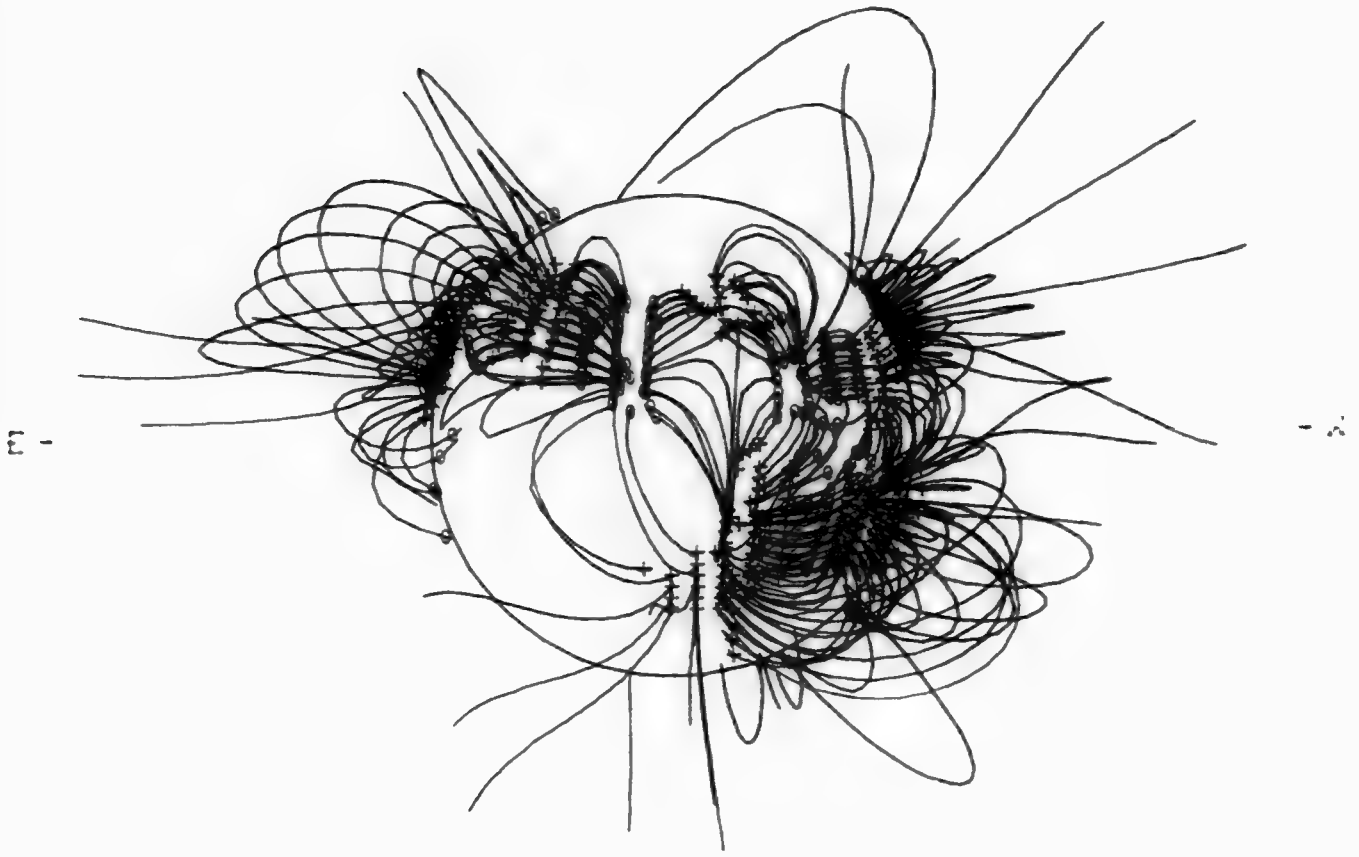


HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N



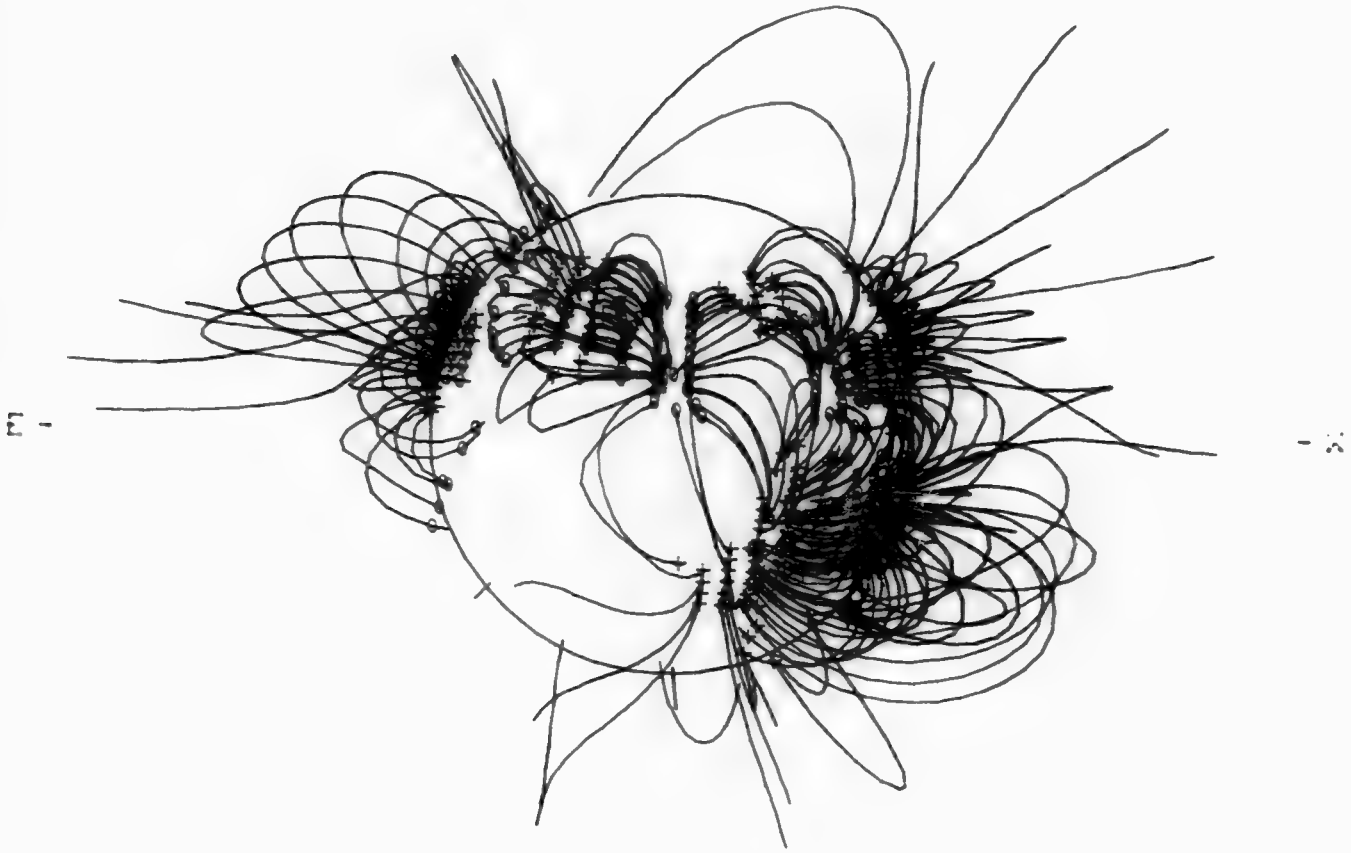
E -

- A

S

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



QUALITY GOOD

PLATES DIRECT

DATA WINDOW 1541.47

ROT. 1542 LONG. 351°

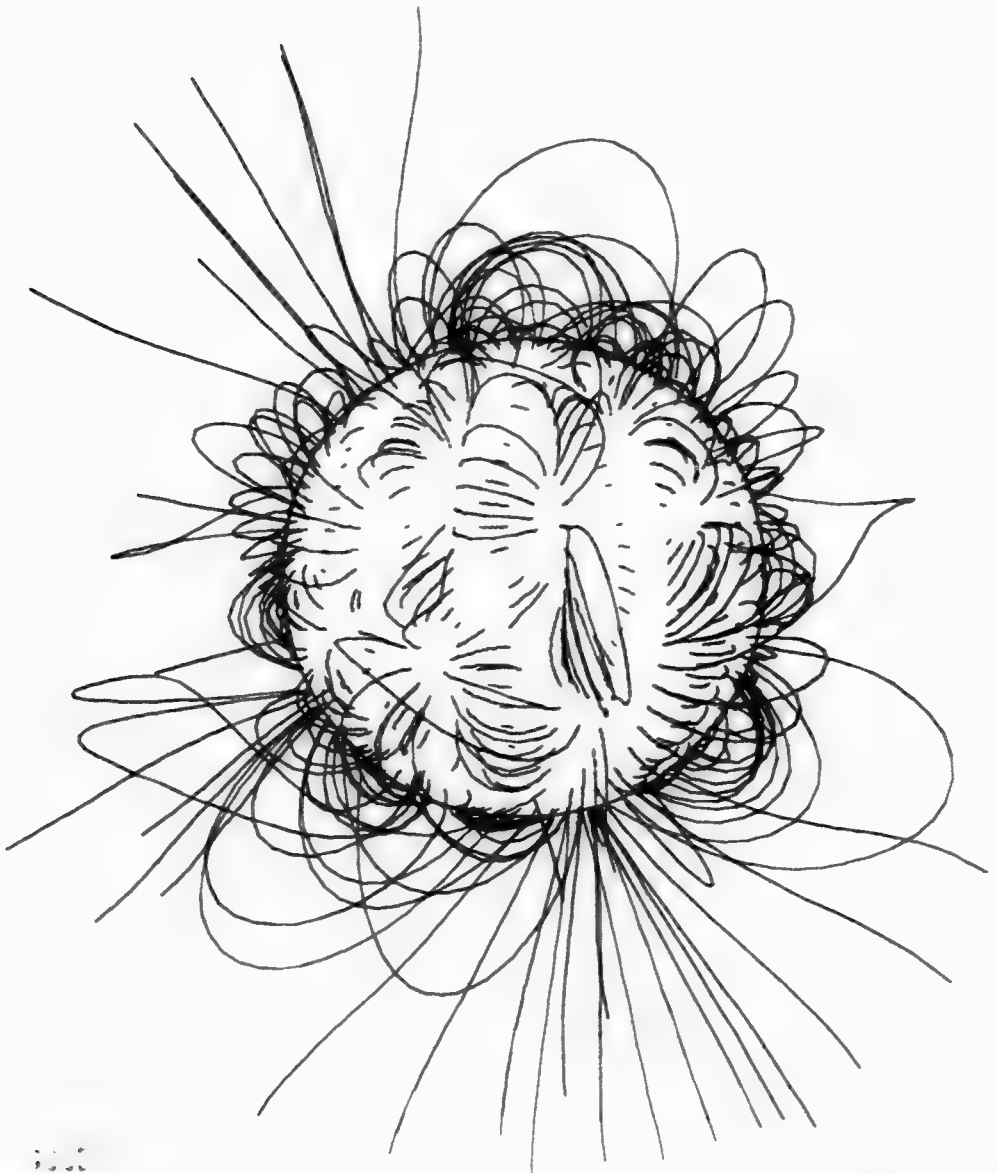
B-S 152 LAT

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N

E -

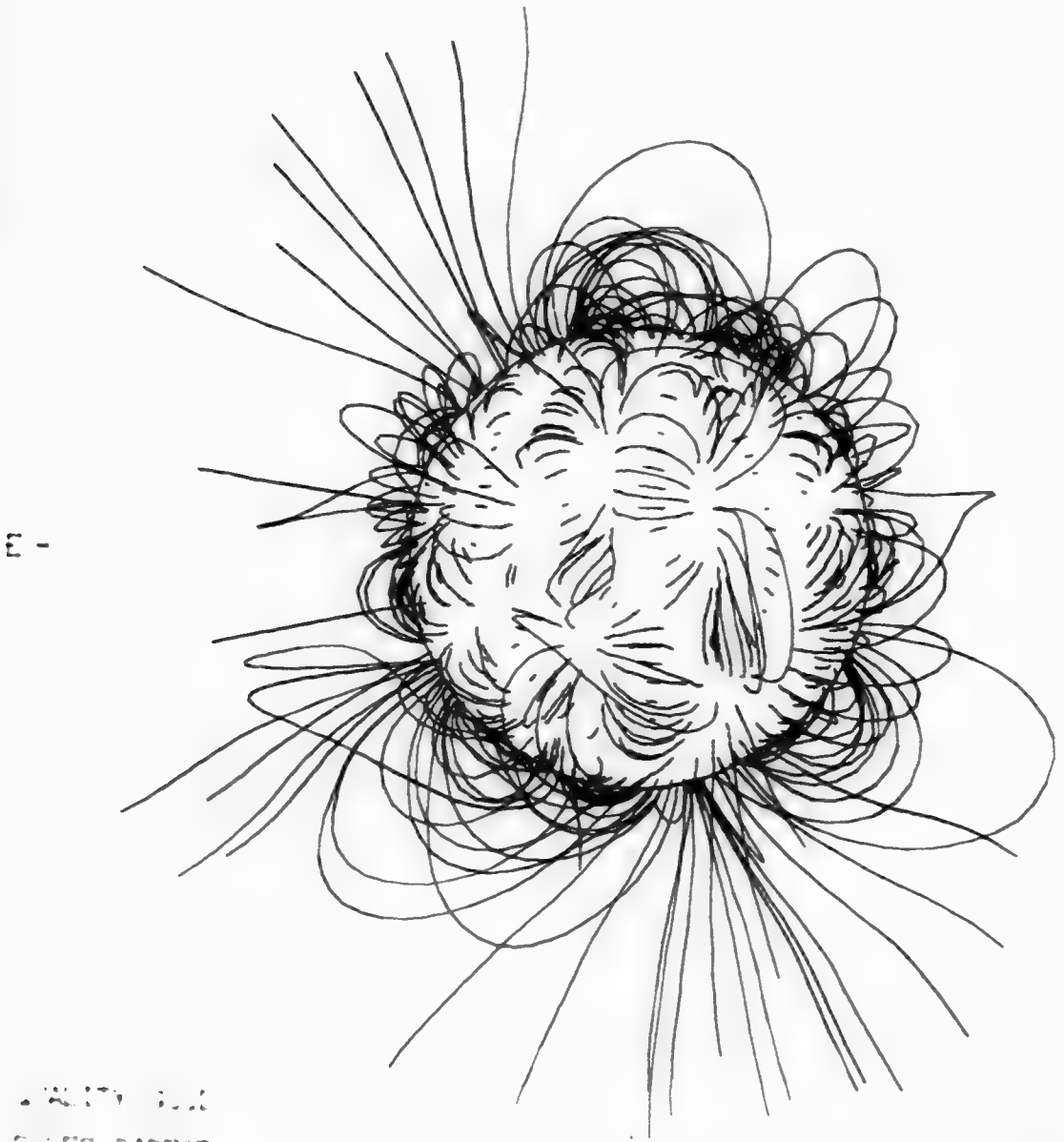
- A



S

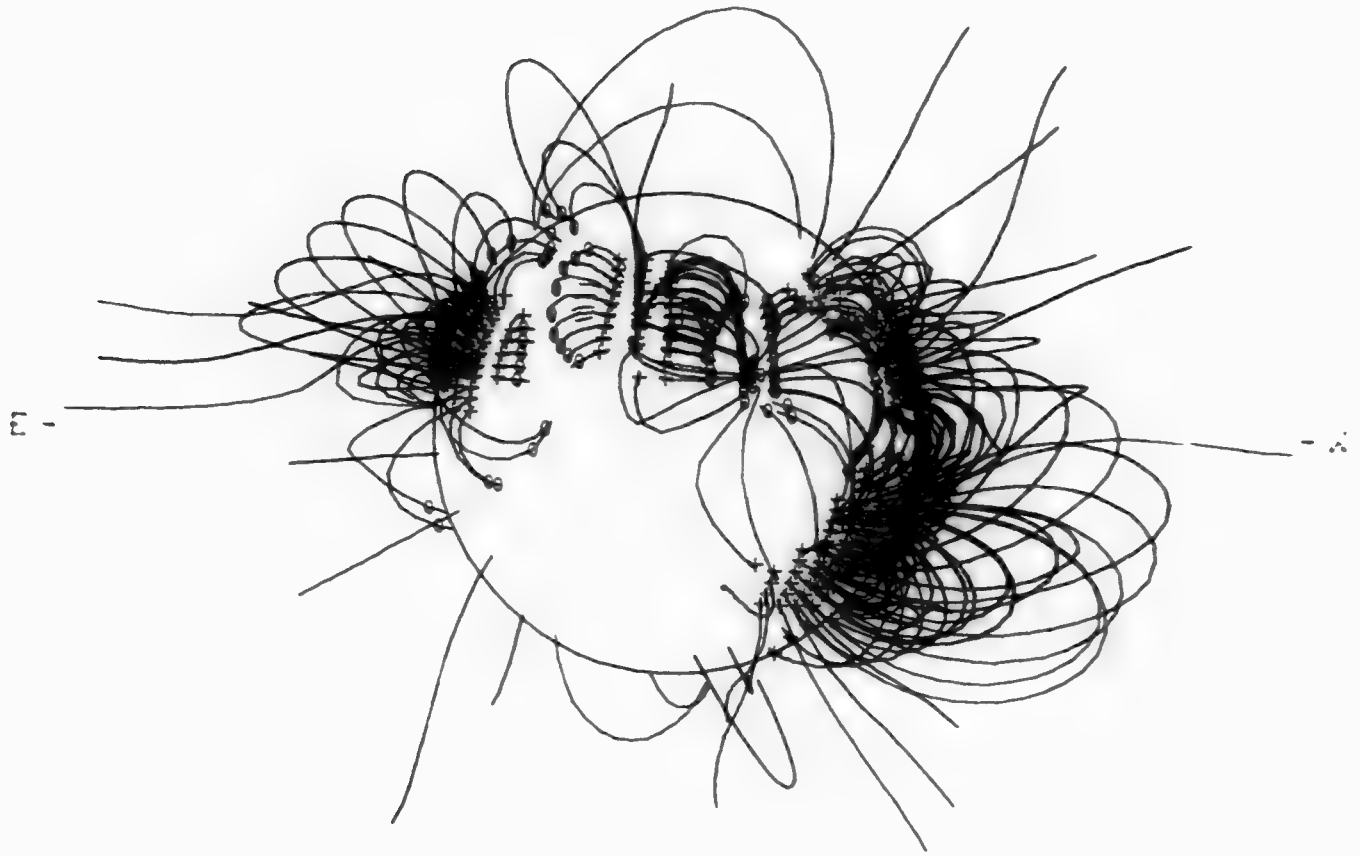
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



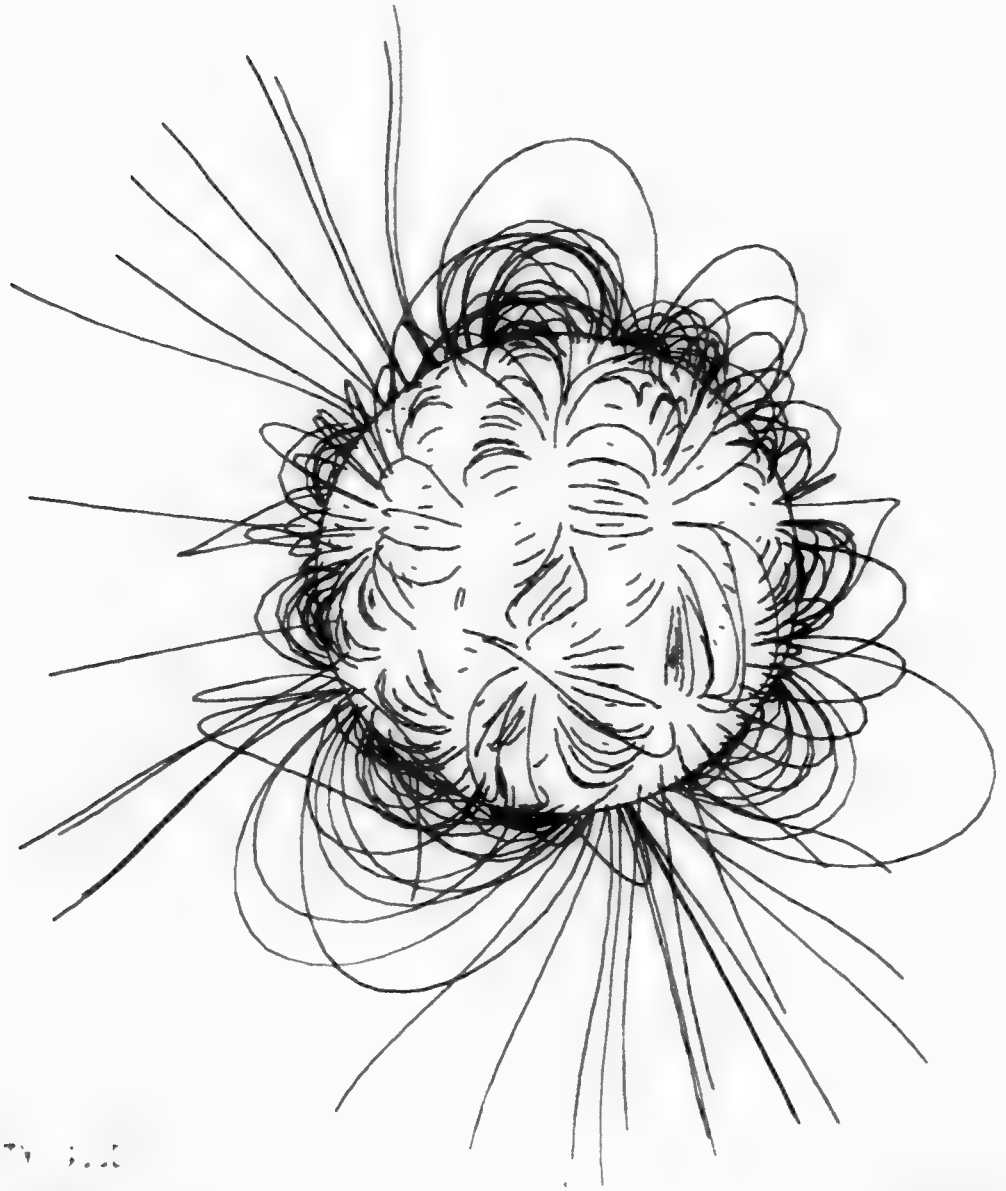
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N



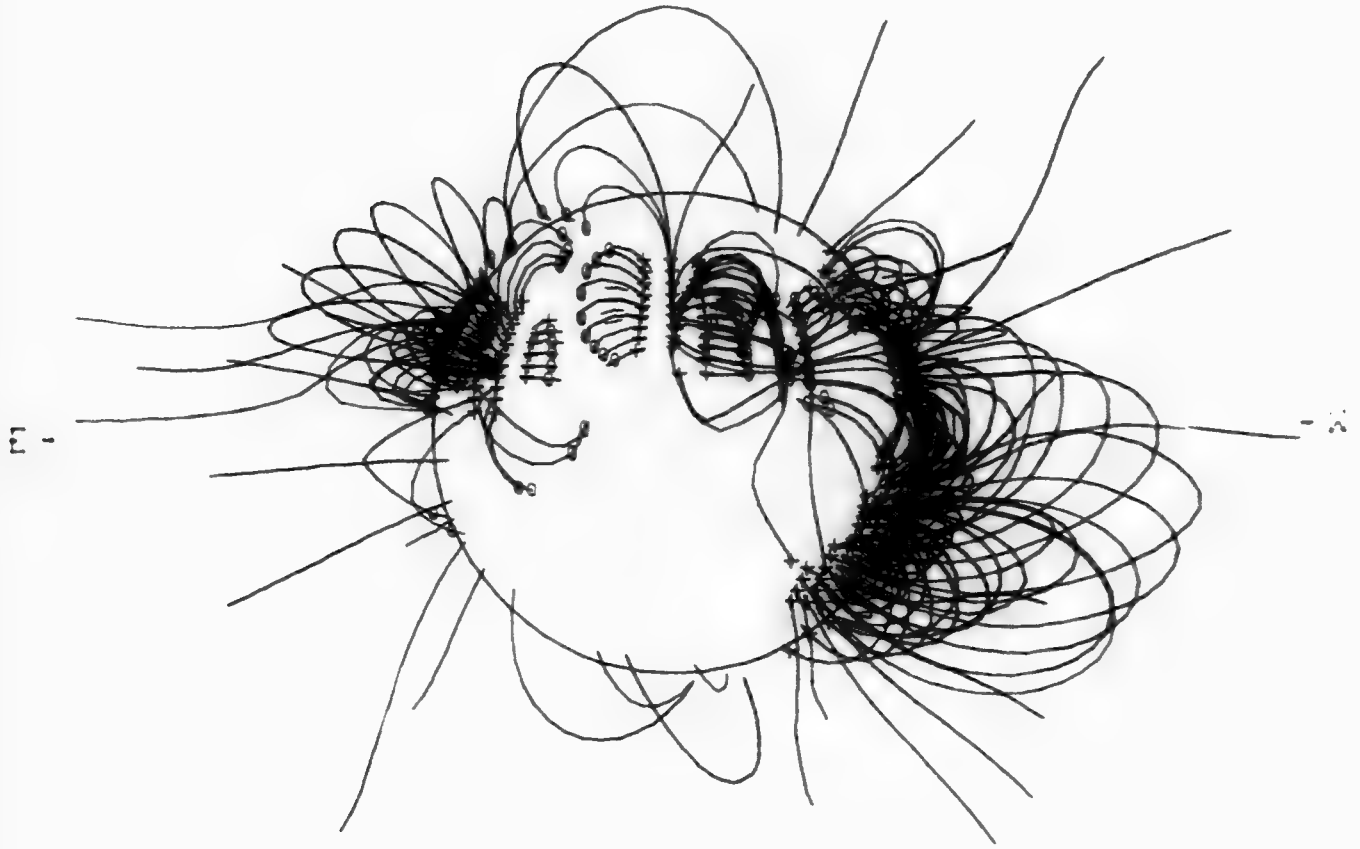
S

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N



S

QUALITY GOOD

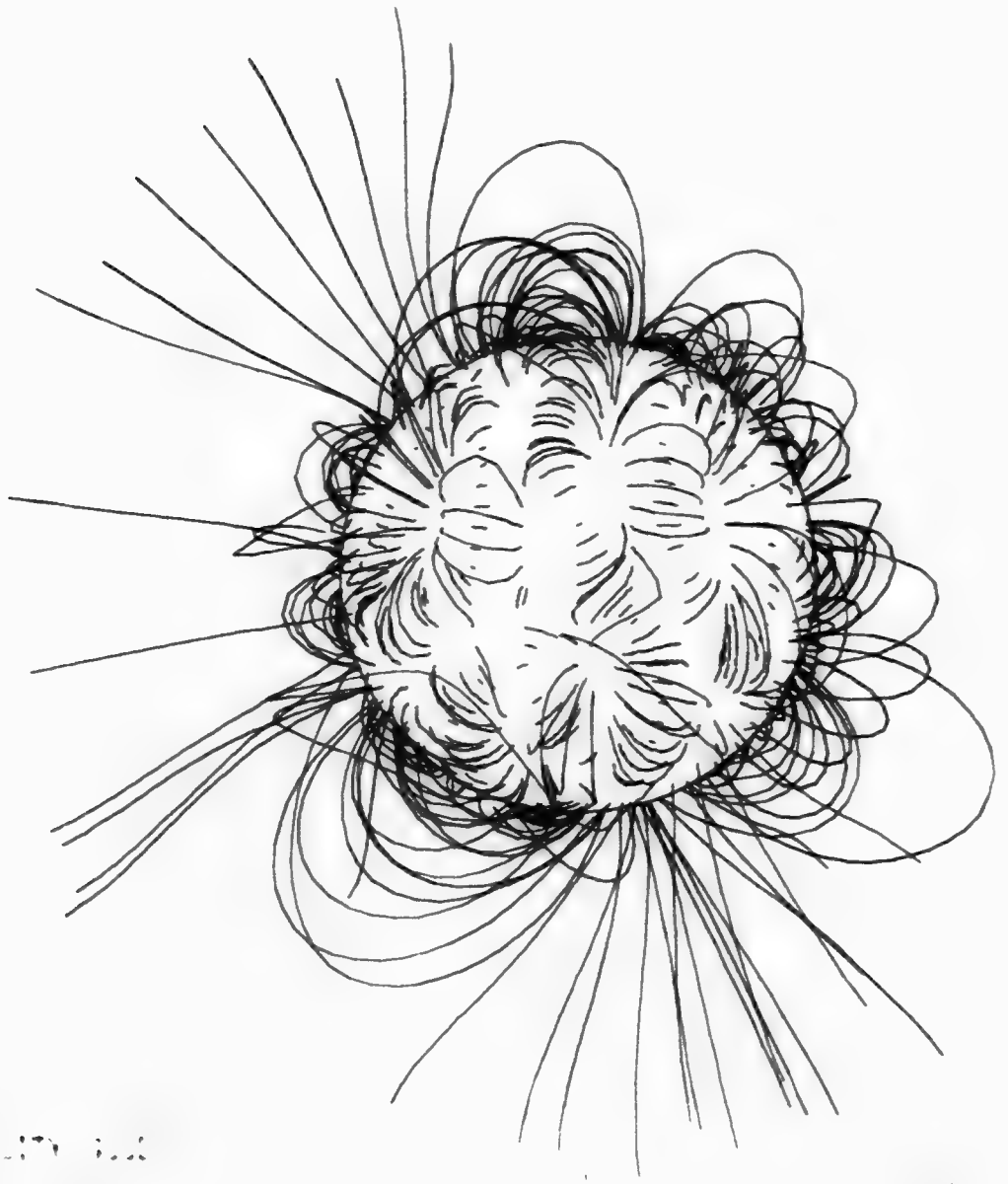
FLUXES DIRECT

DATA WINDOW 1541.4"

ROT. 1542 LONG. 5°

11.8 SEC 1968

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



E -

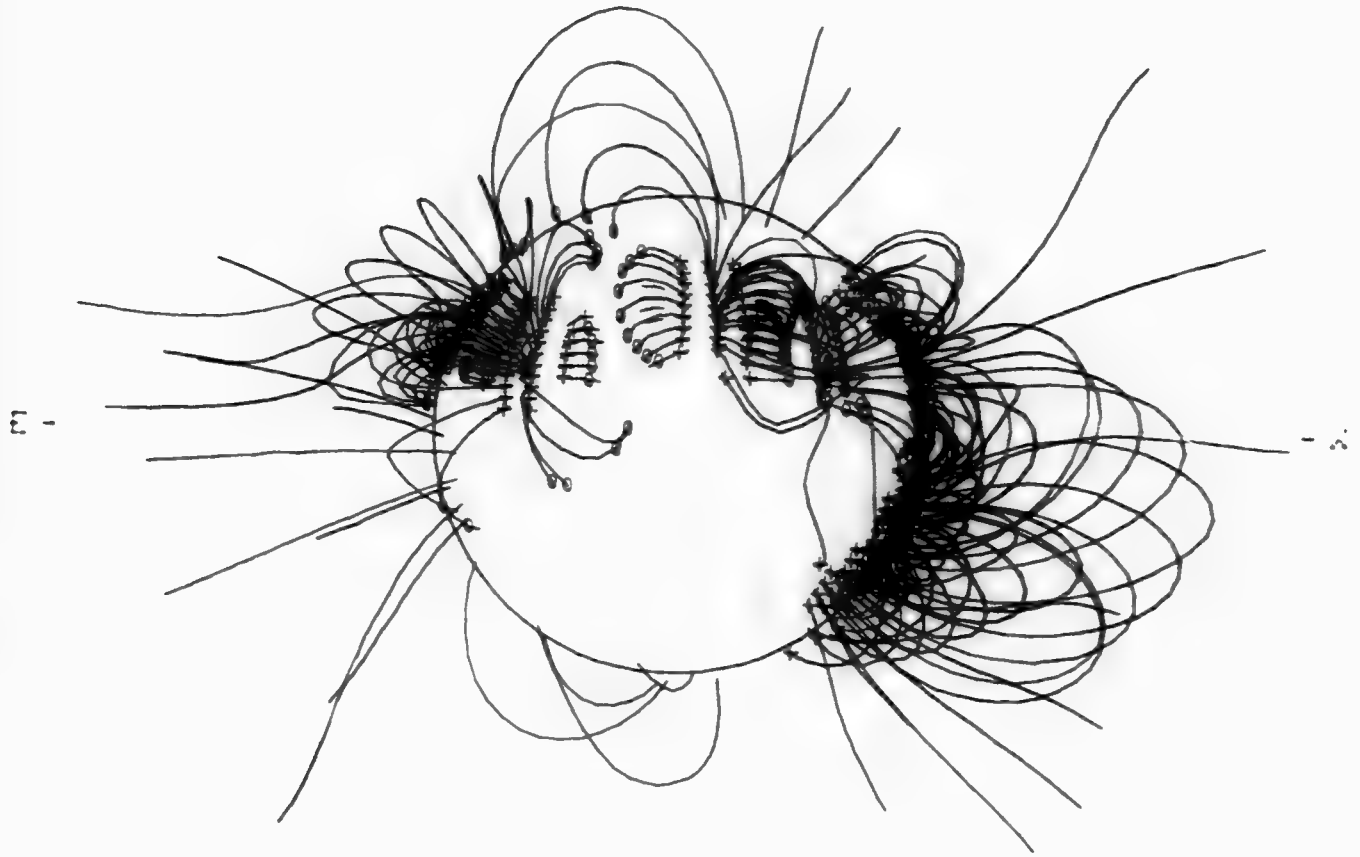
- W

S

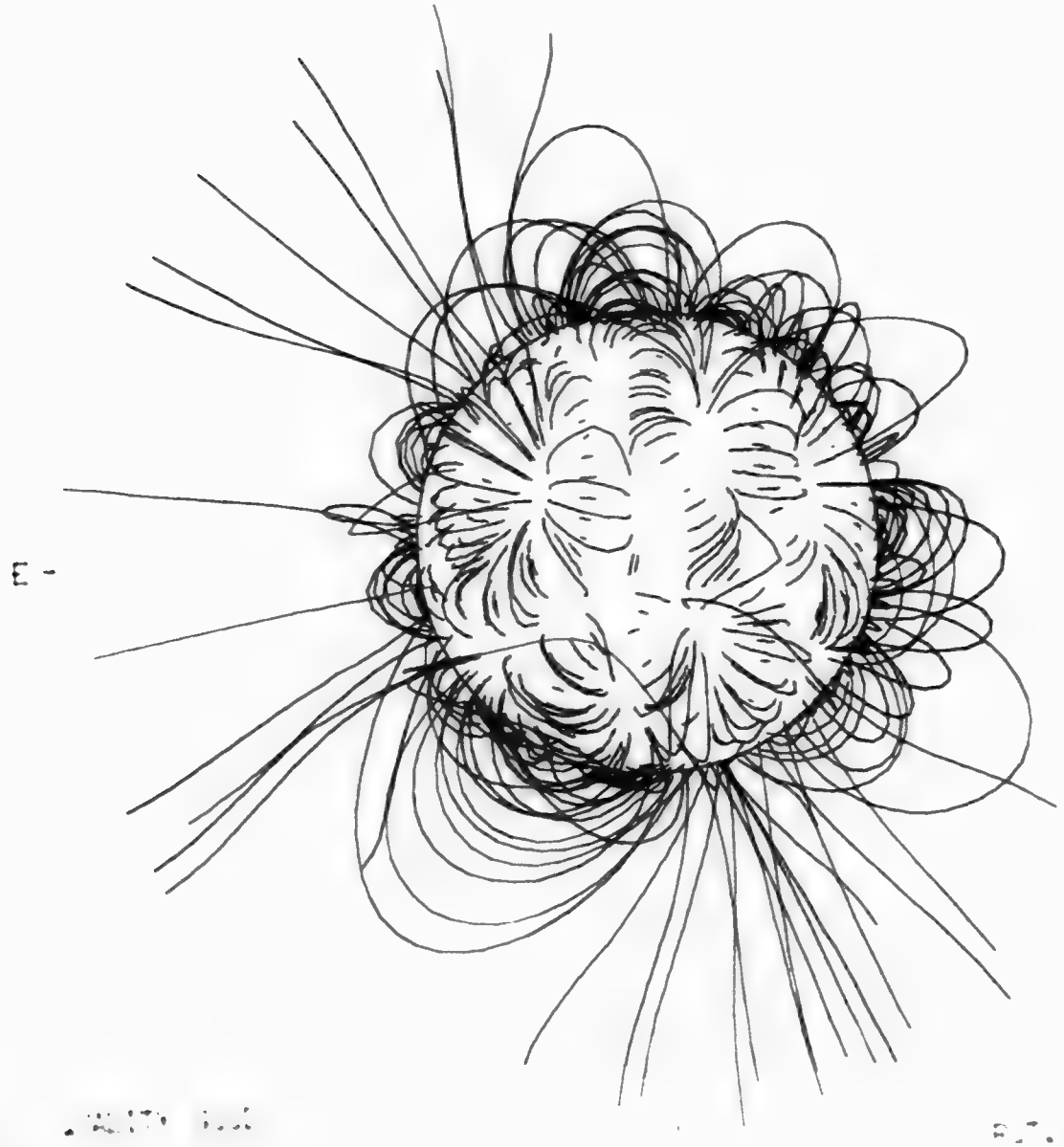
POLES DIRECT

DATA MINUS 1541.4°

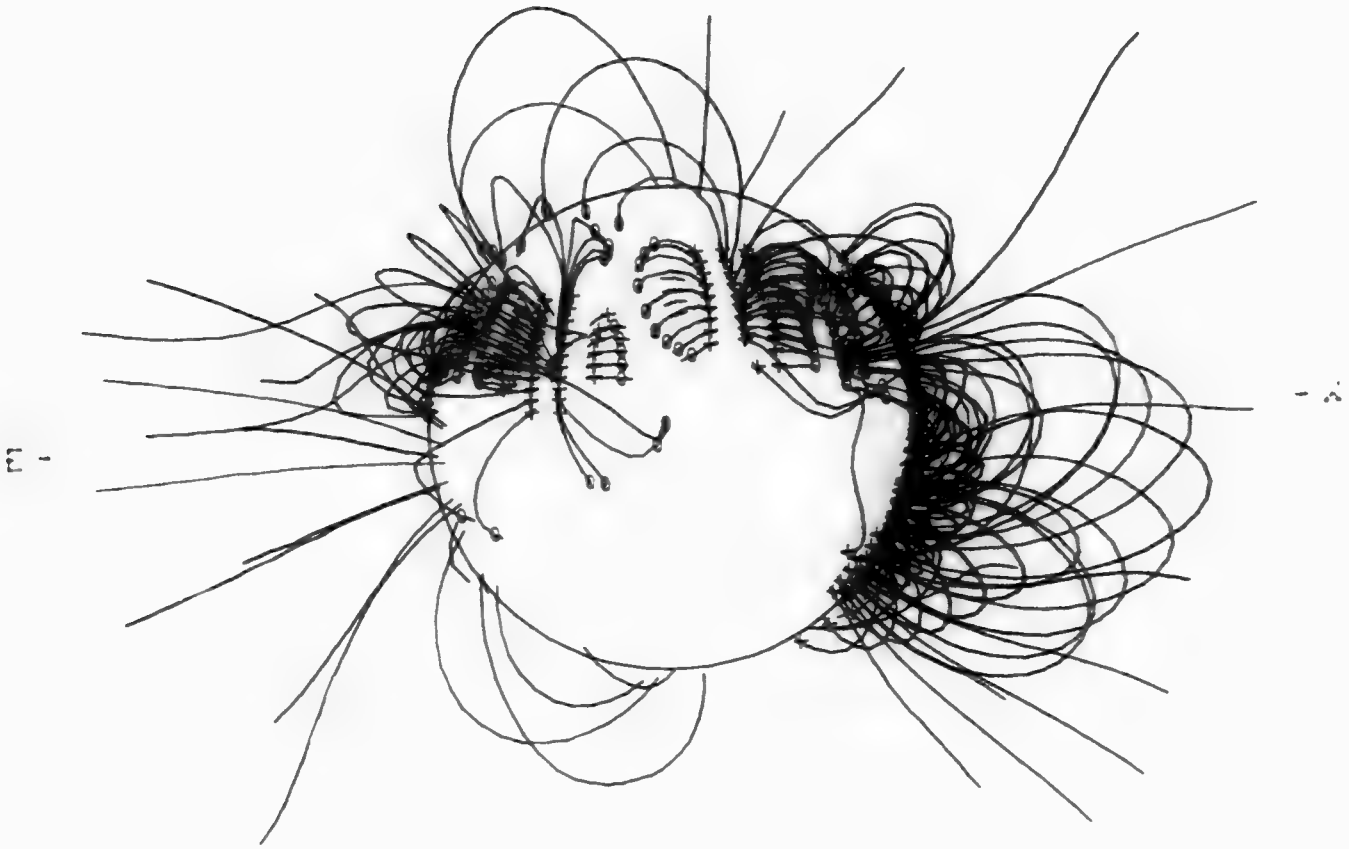
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



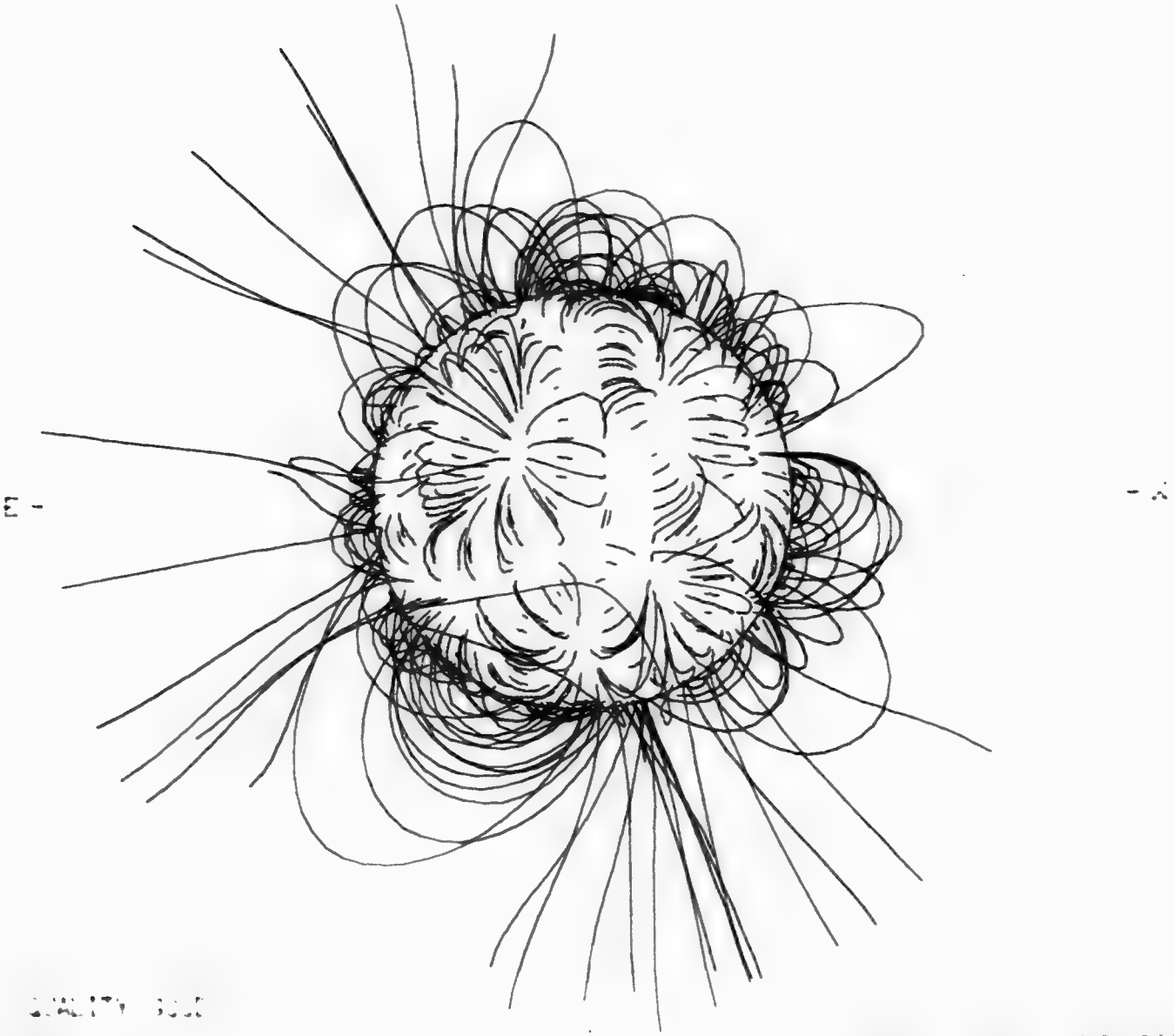
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

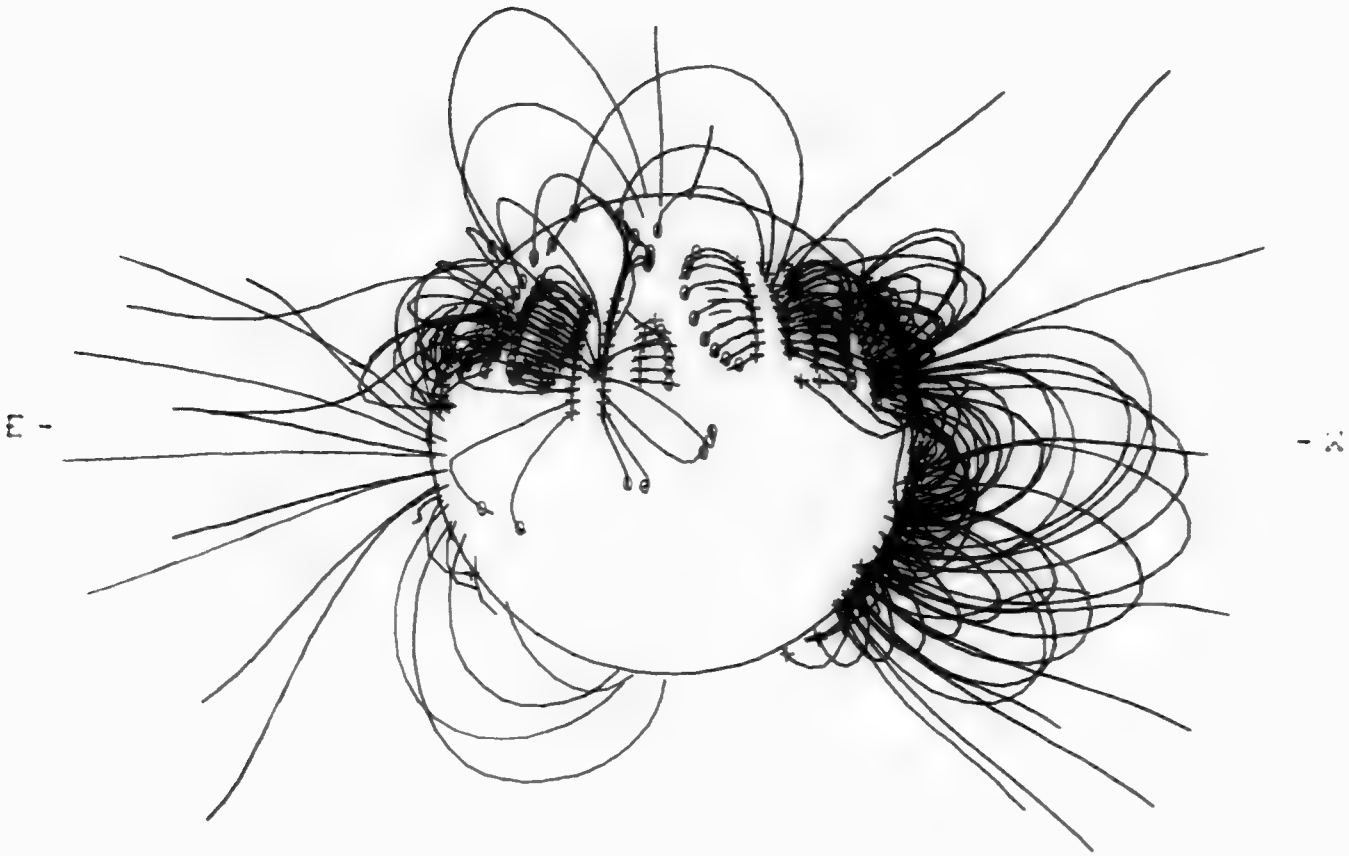


QUALITY [illegible]

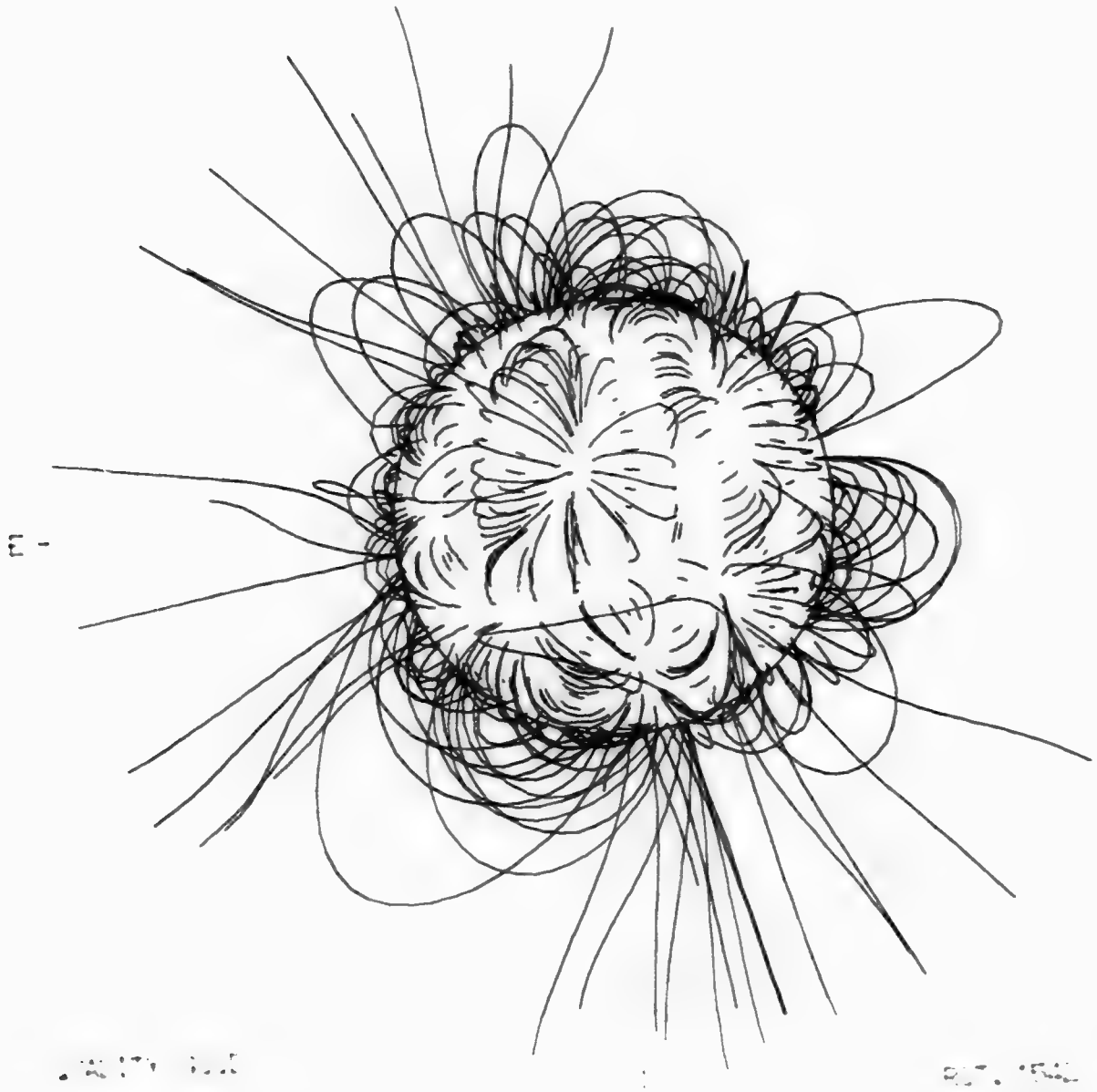
POLES DIRECT

DATA WINDOW 15:41:47

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

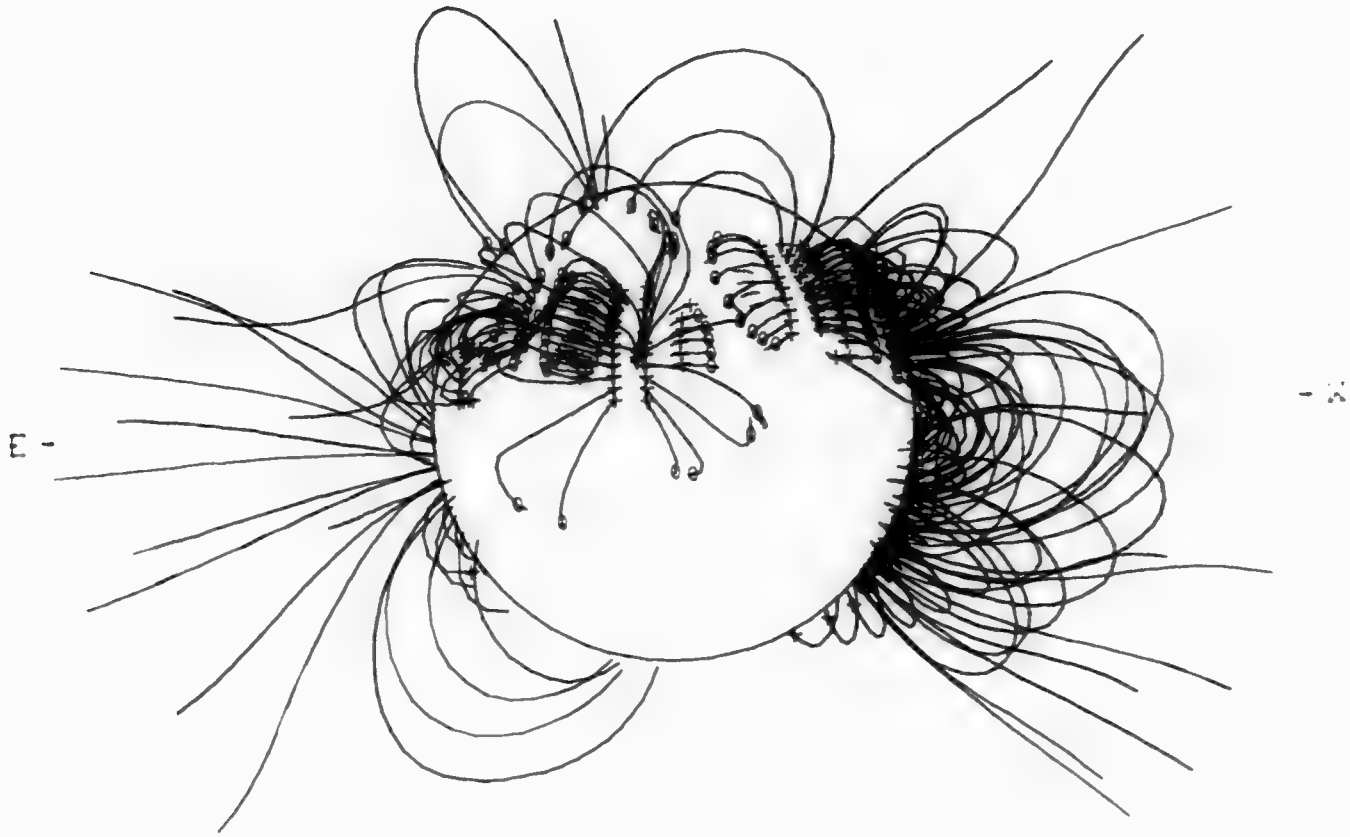


HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N



S

QUALITY GOOD

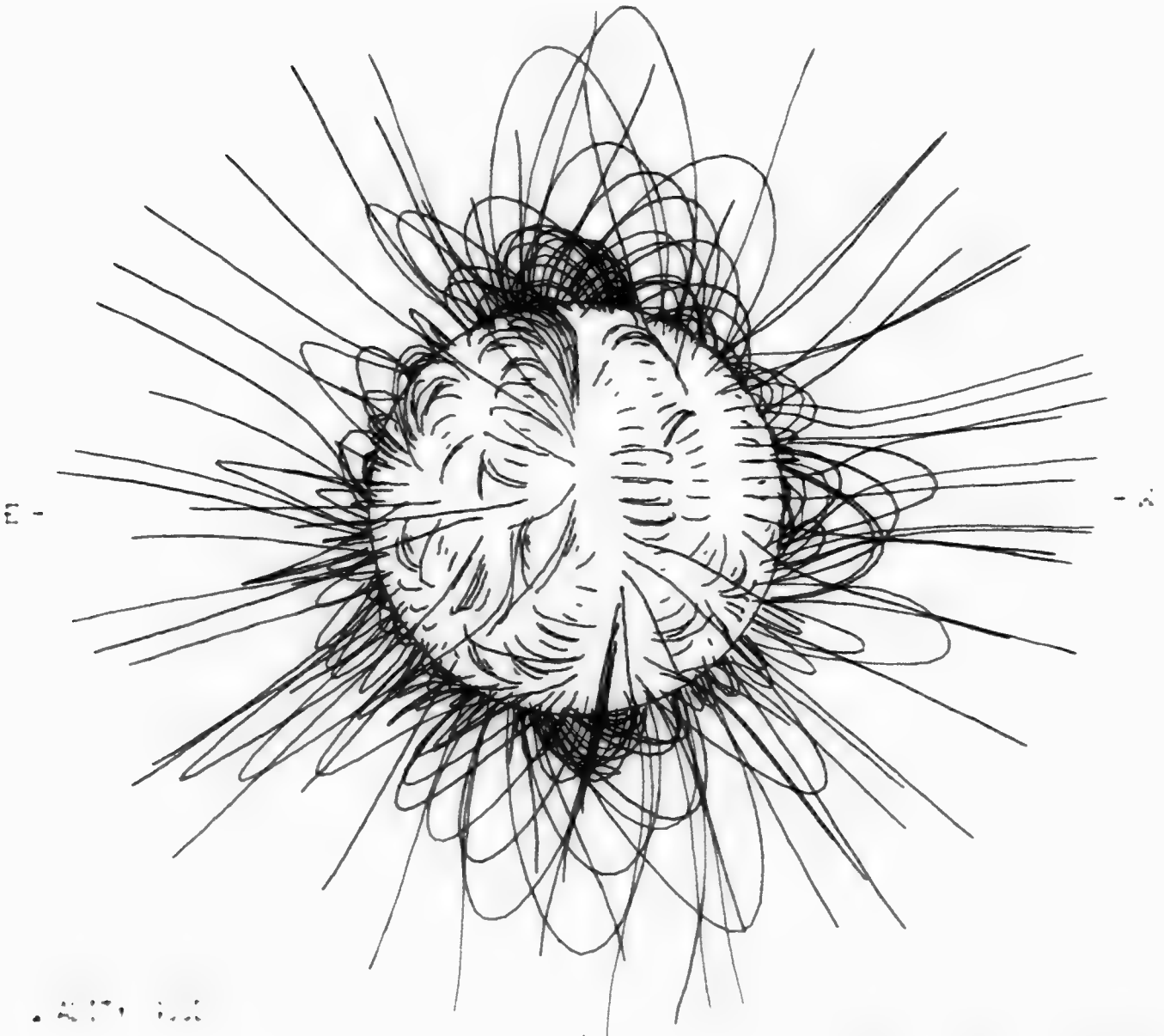
POLES DIRECT

DATA ANGLE 15°.47

ROT. 1542 133.3°

14.8 DEG 1968

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



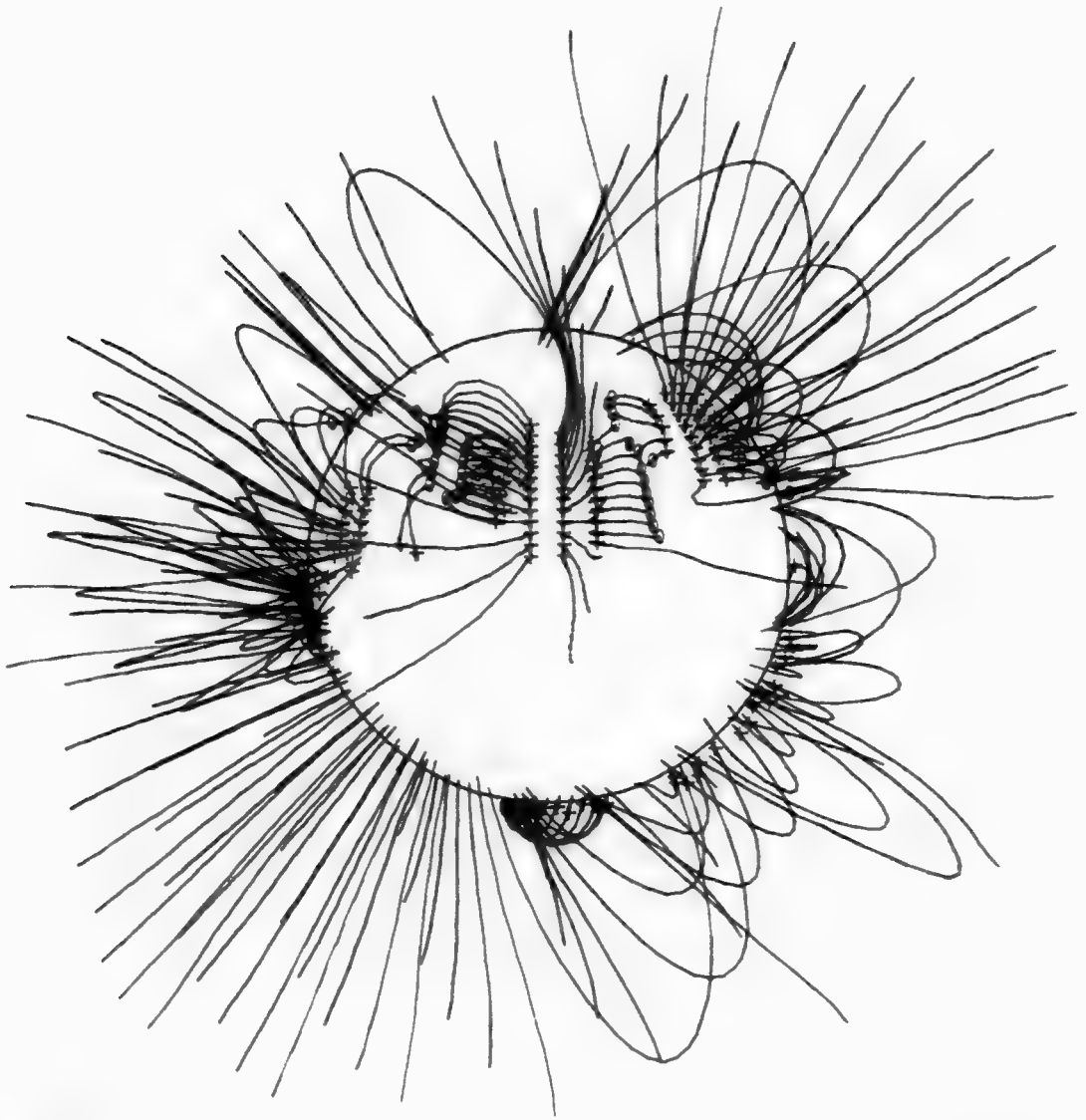
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N

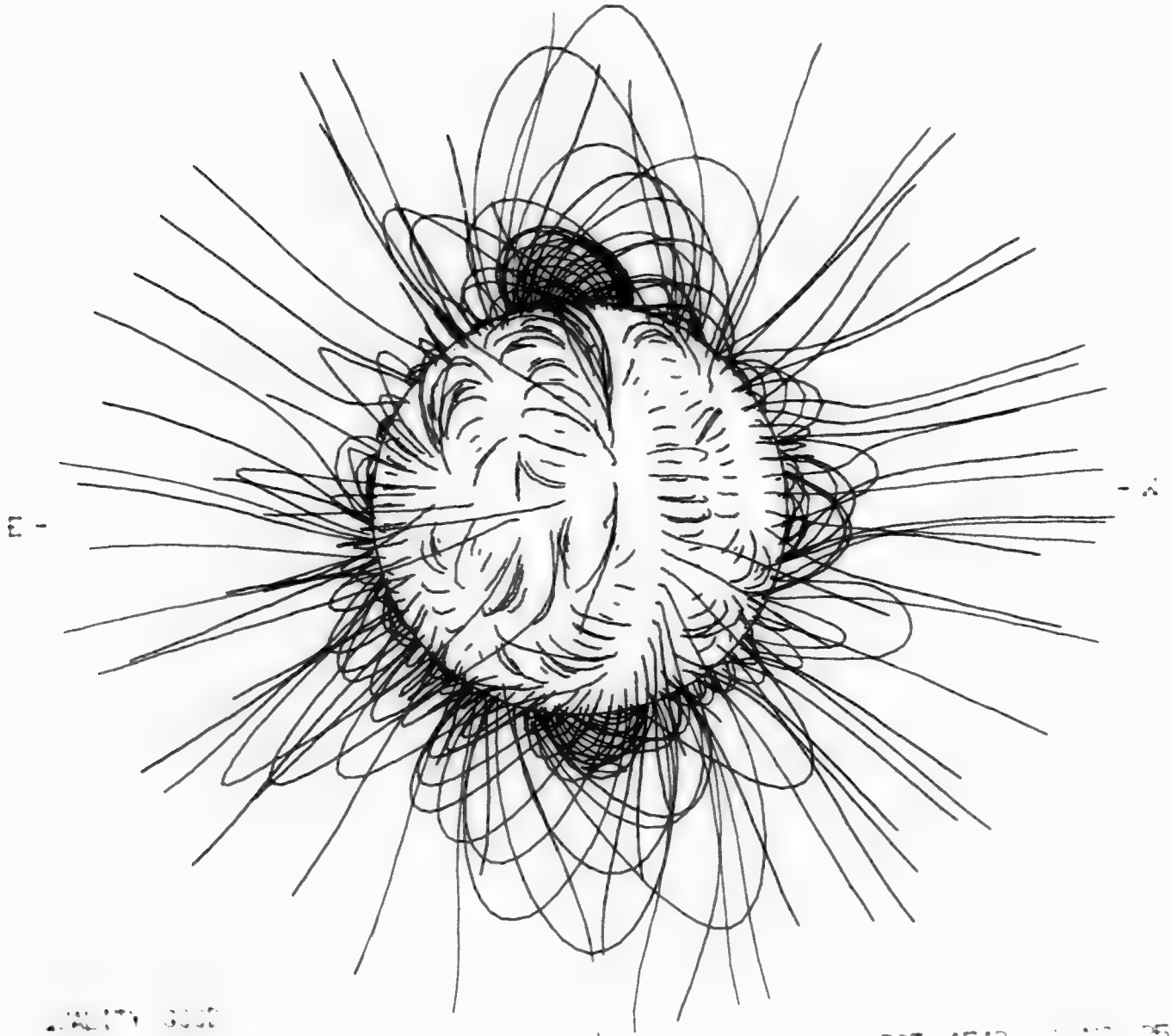
E

W

S



HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



QUALITY 3000

POLES DIRECT

DATA AVAILABLE 1542.00

ROT. 1542 LONG. 251°

16.4 DEC 1968

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N

E -

- W

S

QUALITY GOOD

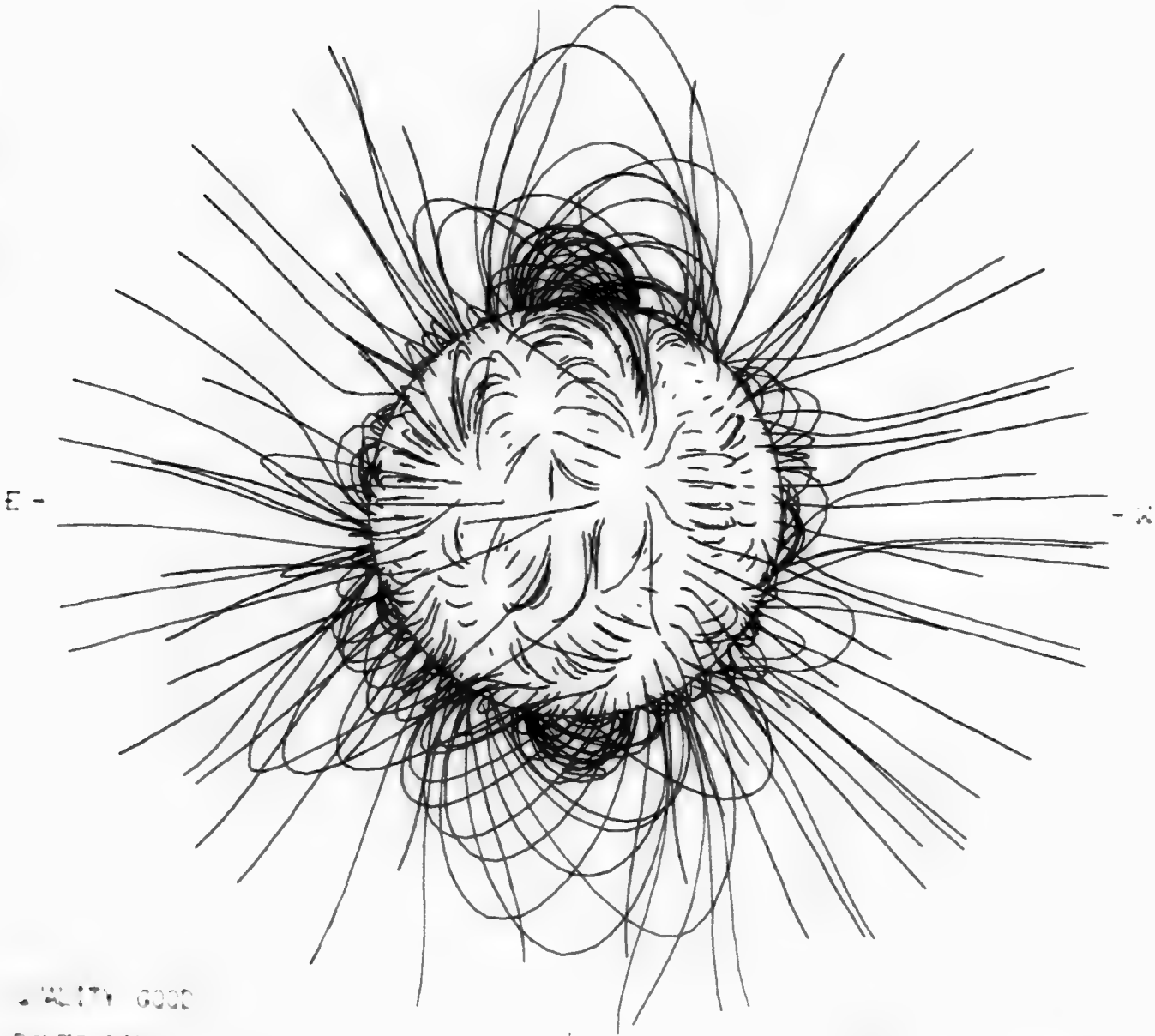
POLES DIRECT

DATA WINDOW 1542.00

ROT. 1542 LONG. 250°

16.4 DEC 1968

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



QUALITY GOOD

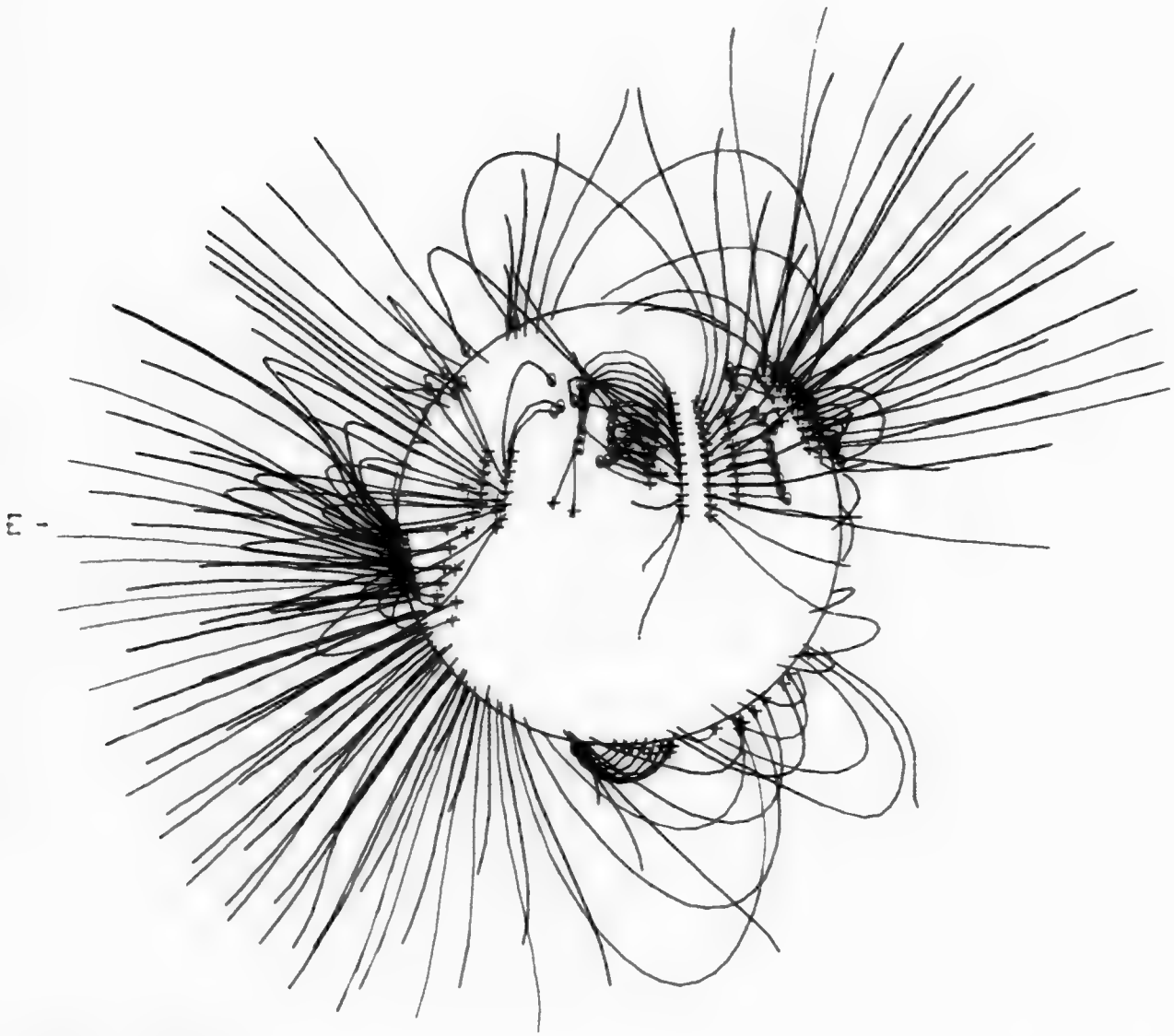
POLES DIRECT

DATA AVAILABLE 1542.00

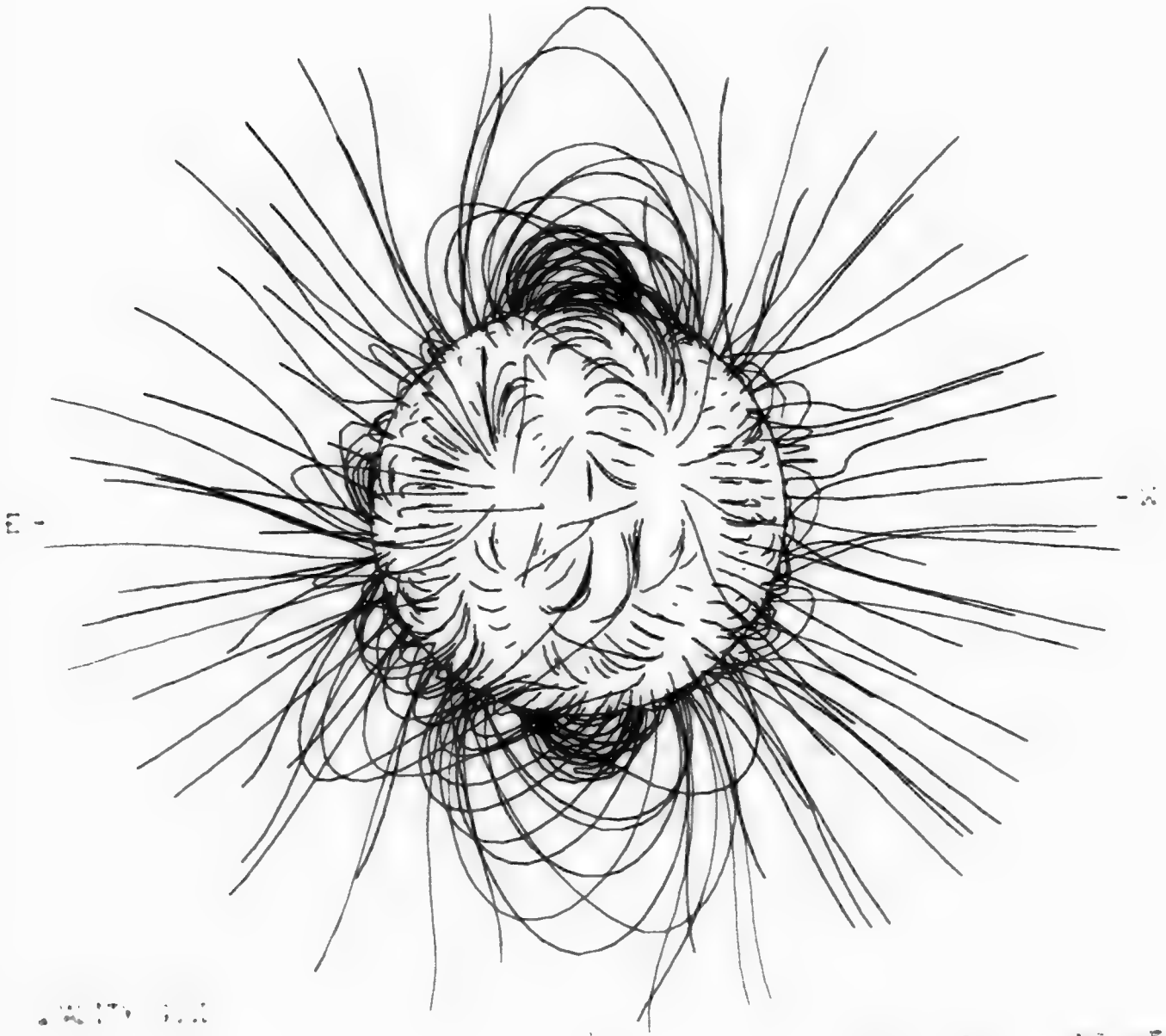
ROT. 1542 LONG. 241°

17.° DEC -9.6°

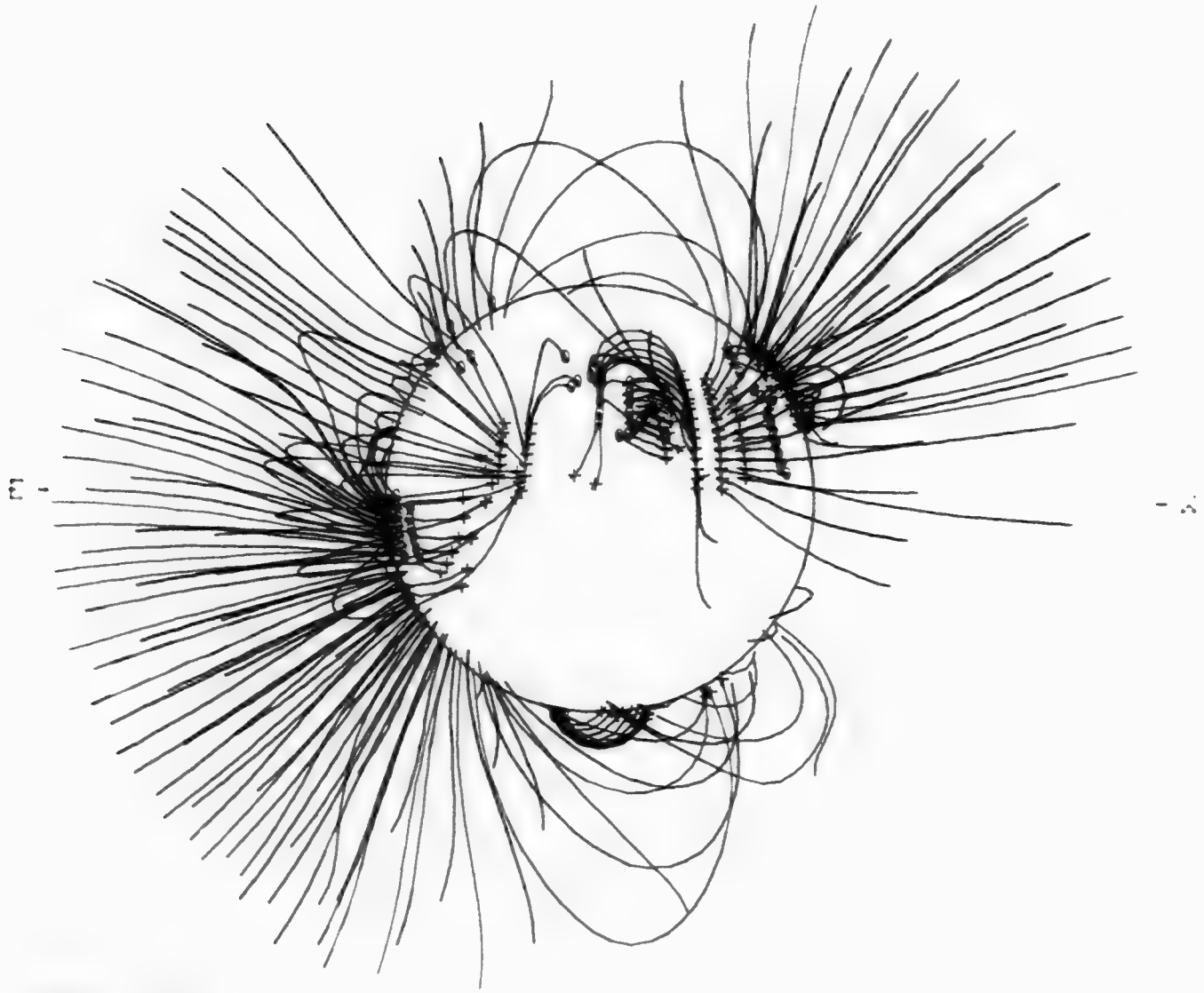
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



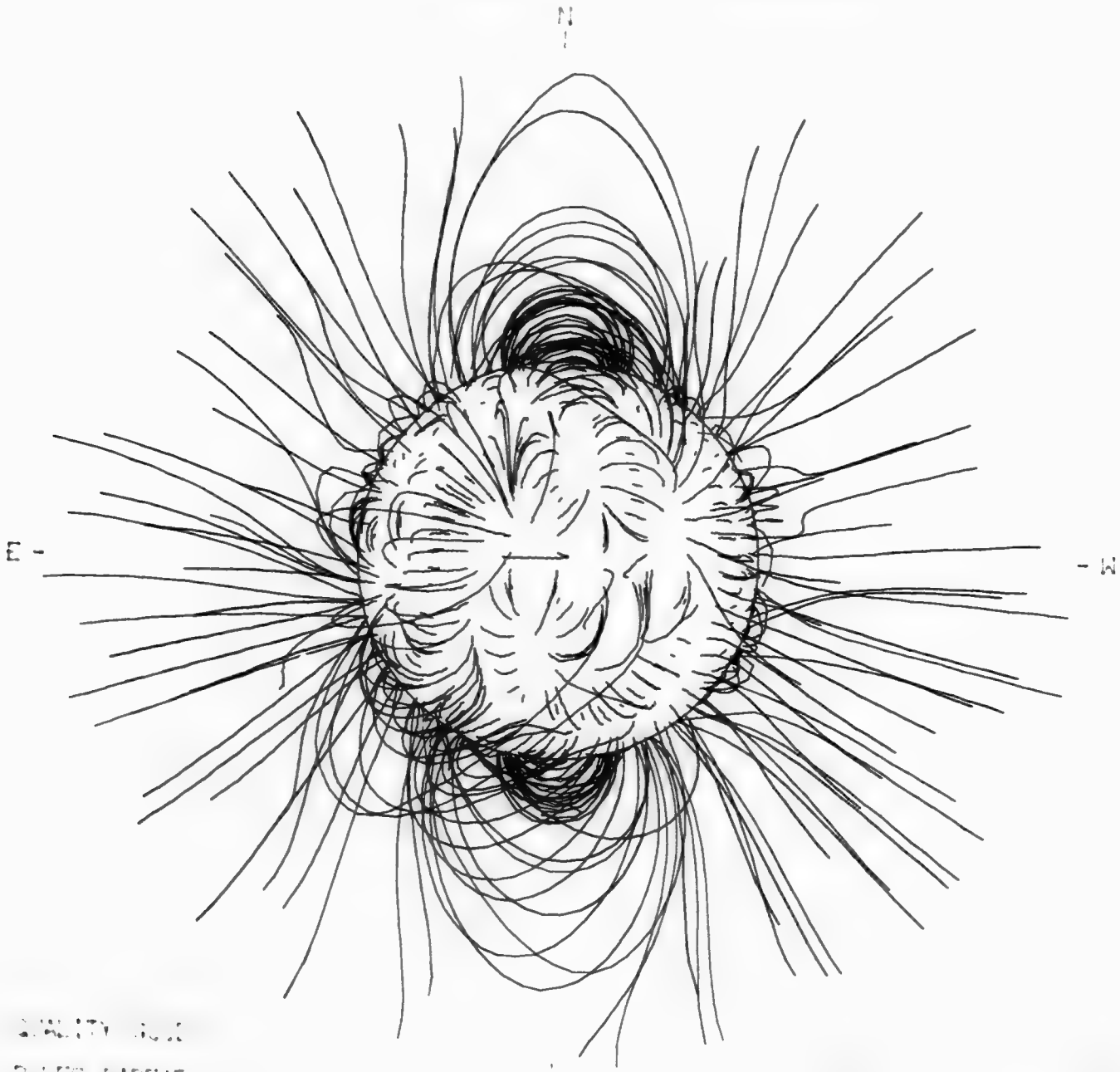
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



QUALITY [illegible]

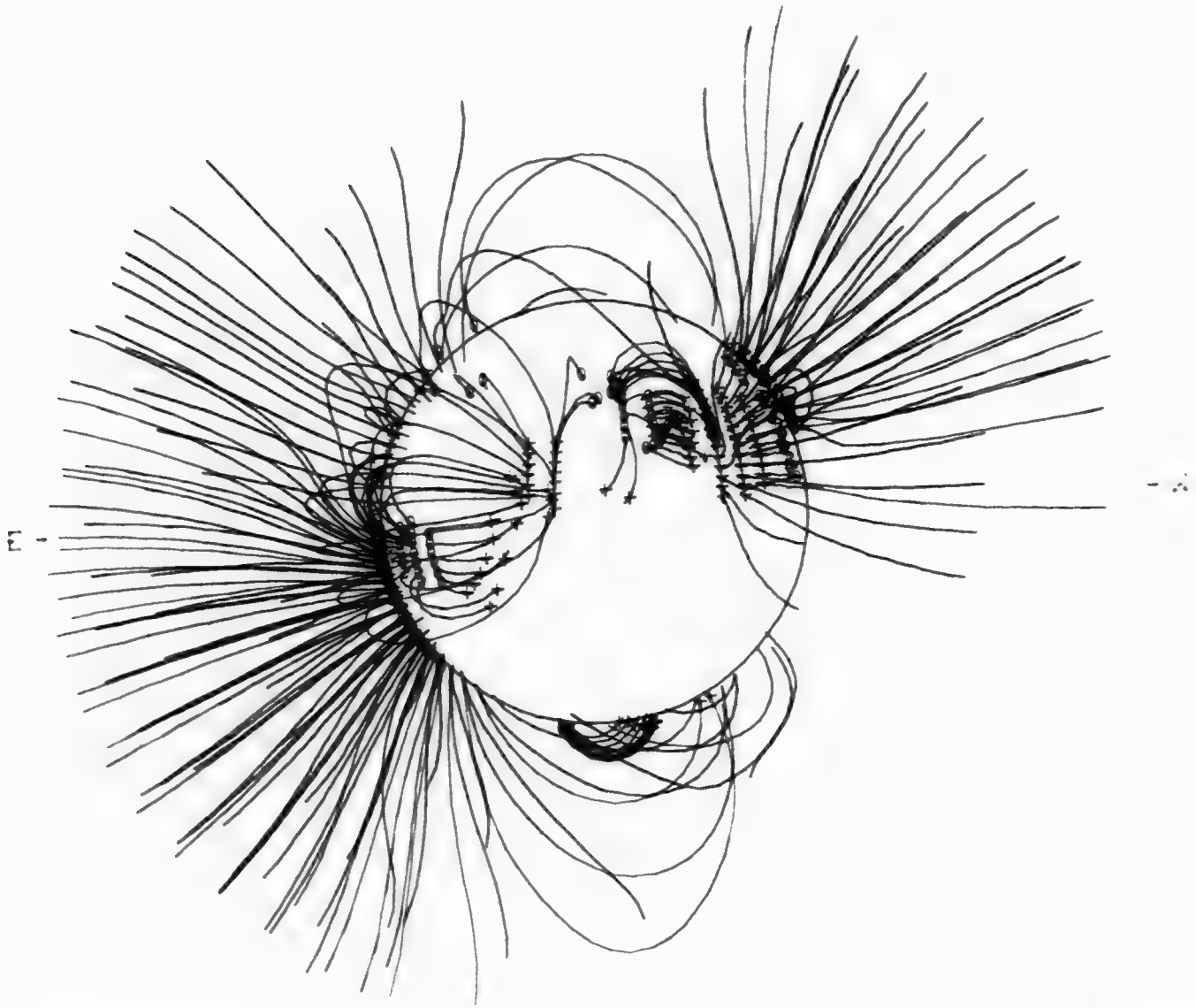
RULES [illegible]

DATA AVAILABLE [illegible]

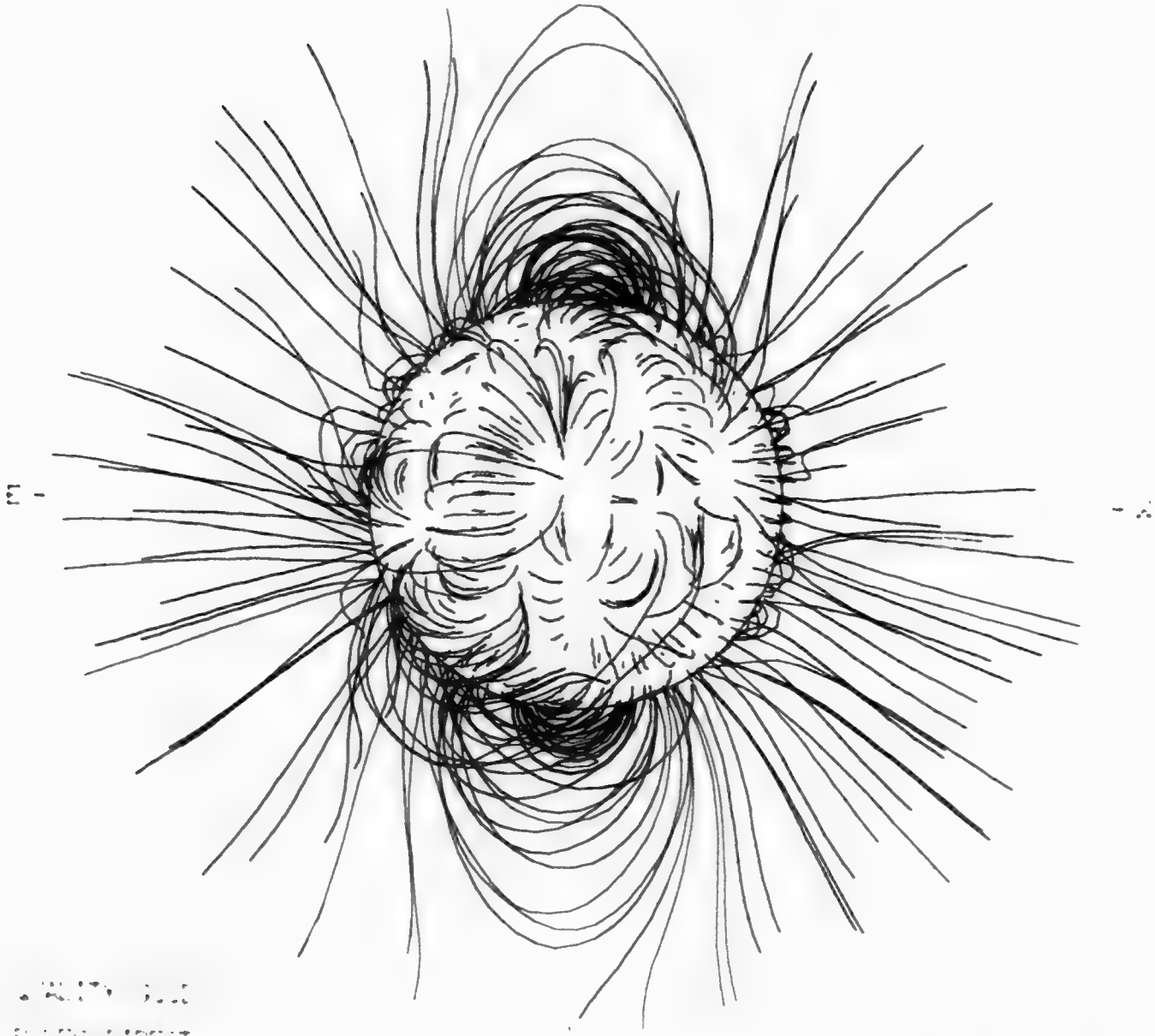
ROT. 1542 L=13. 22[illegible]°

18.7 DEC 1968

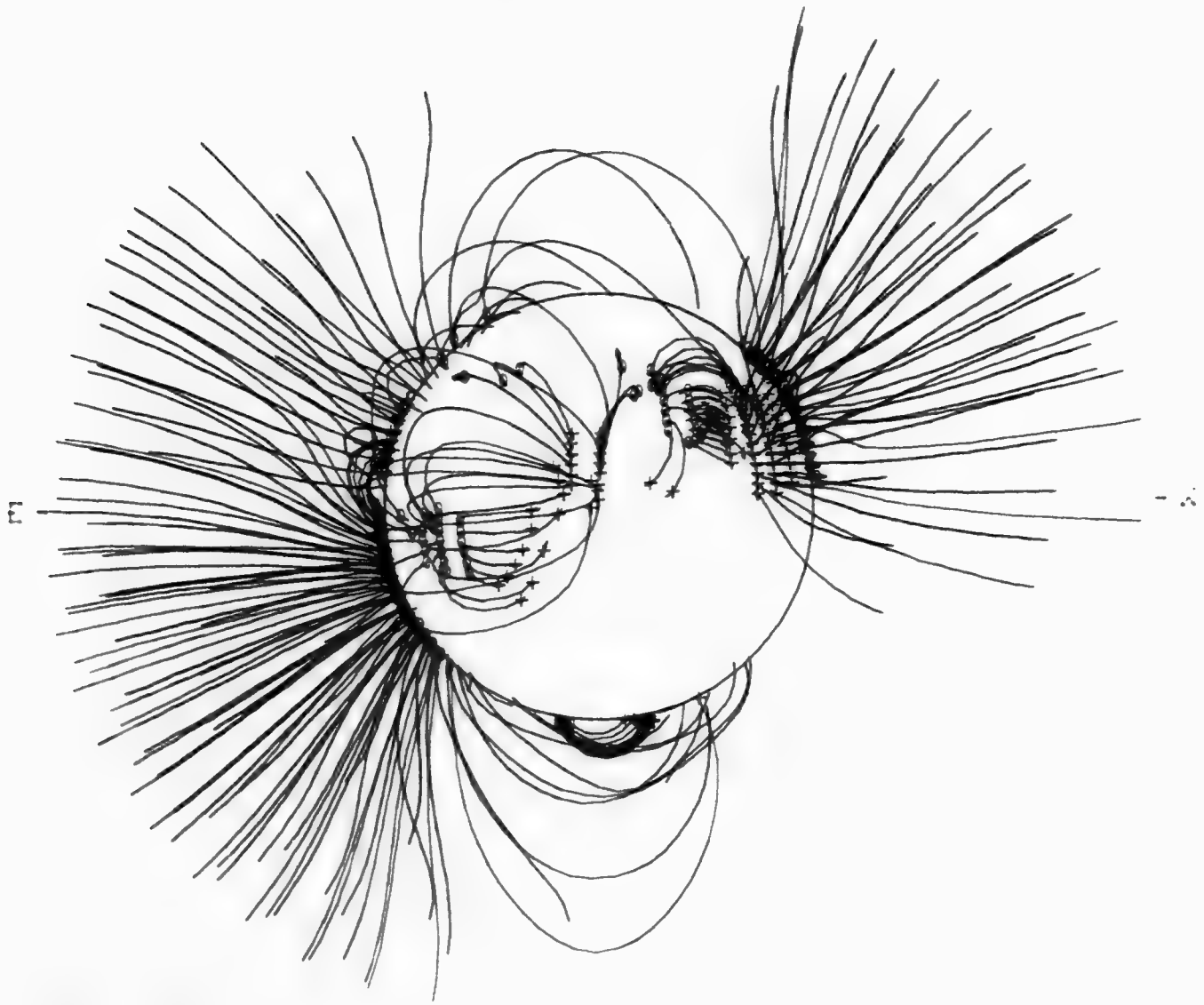
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



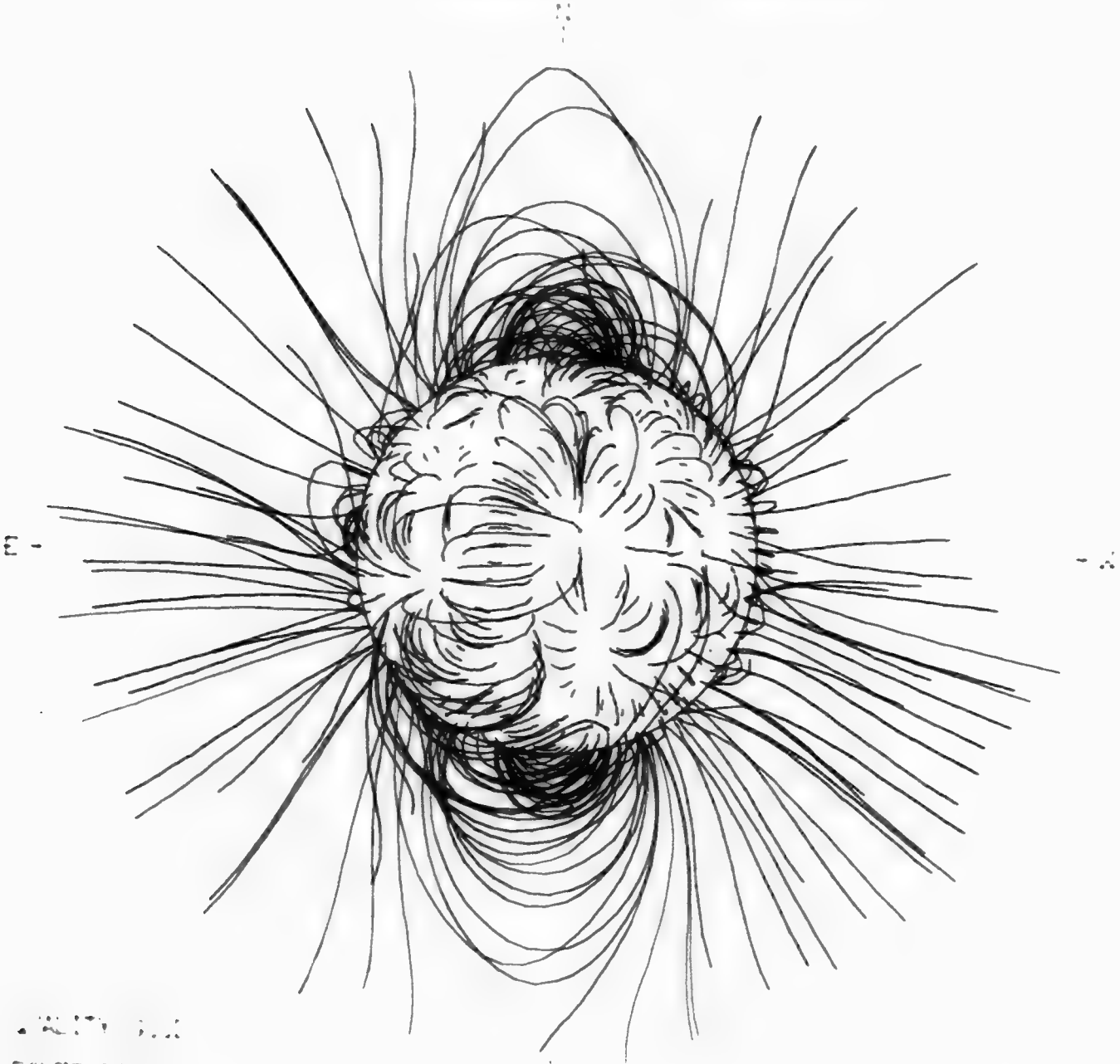
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



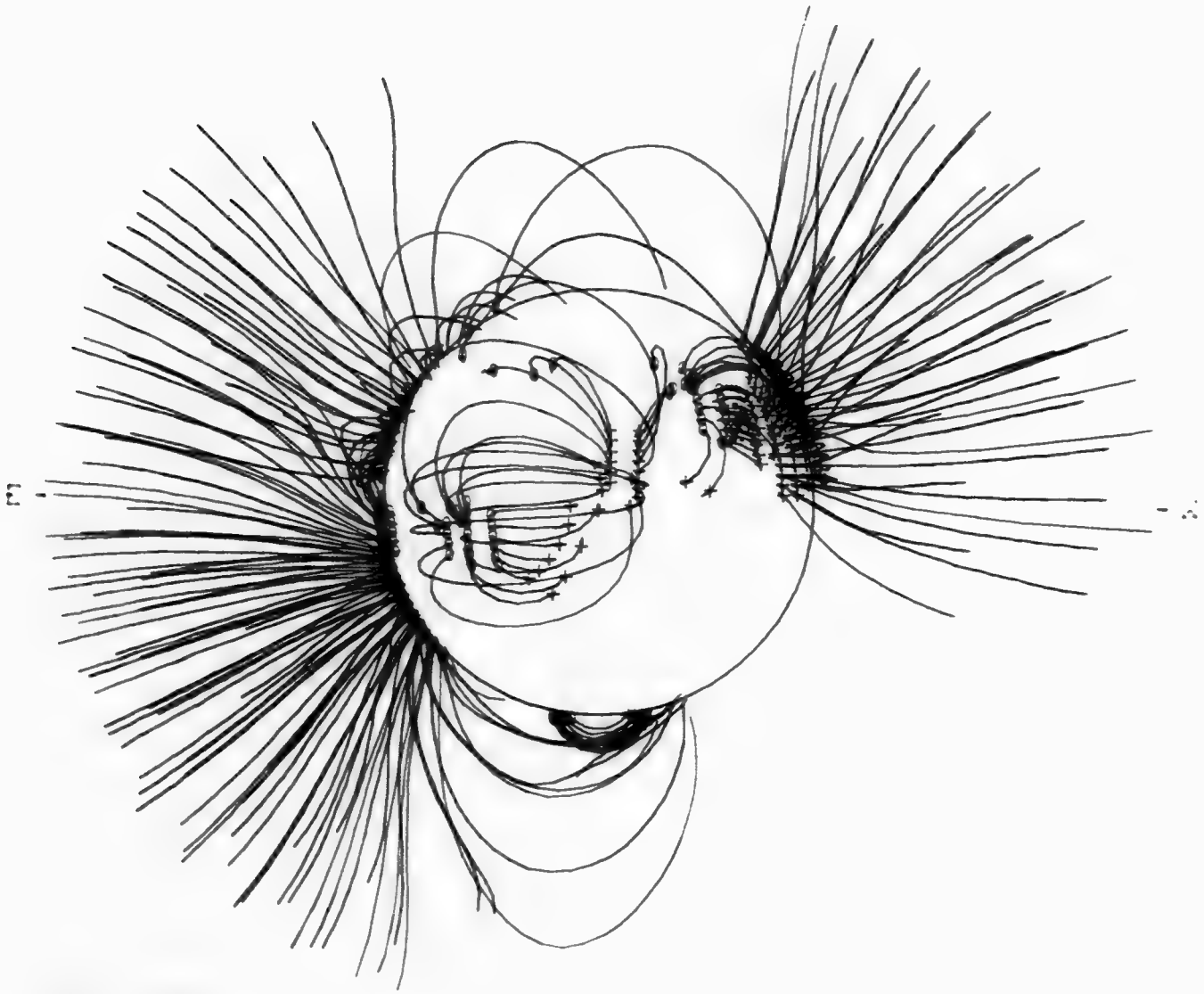
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



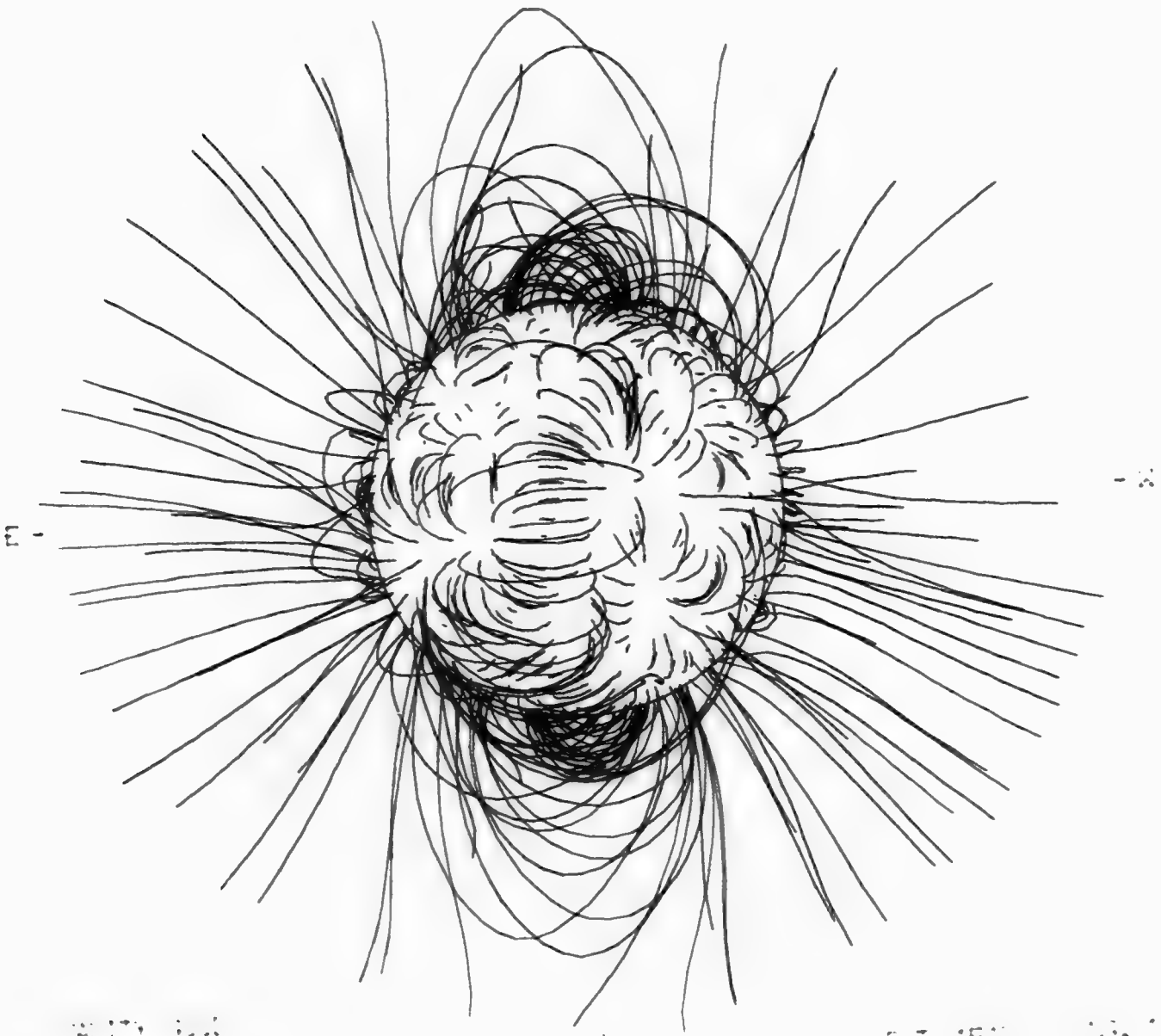
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



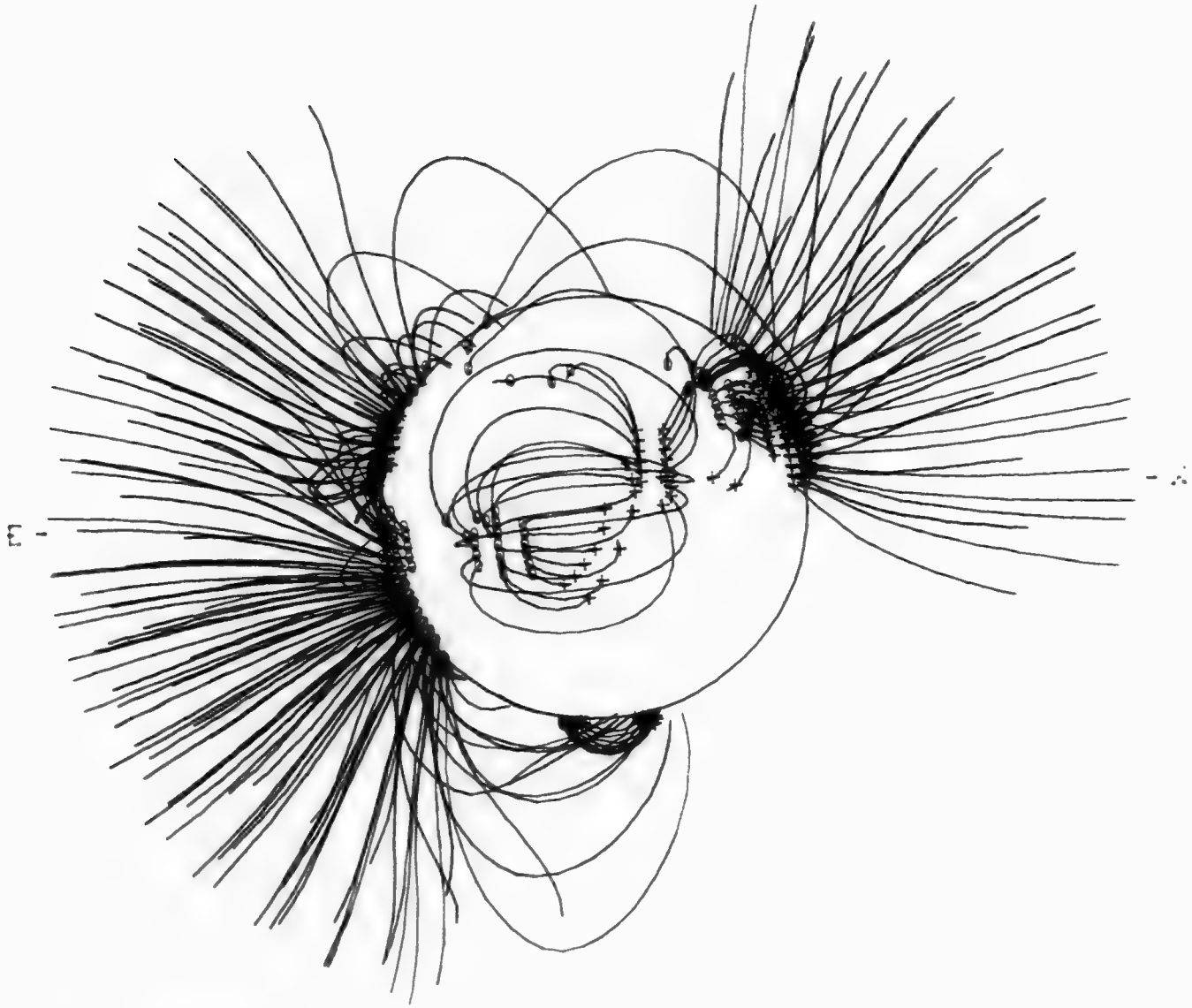
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



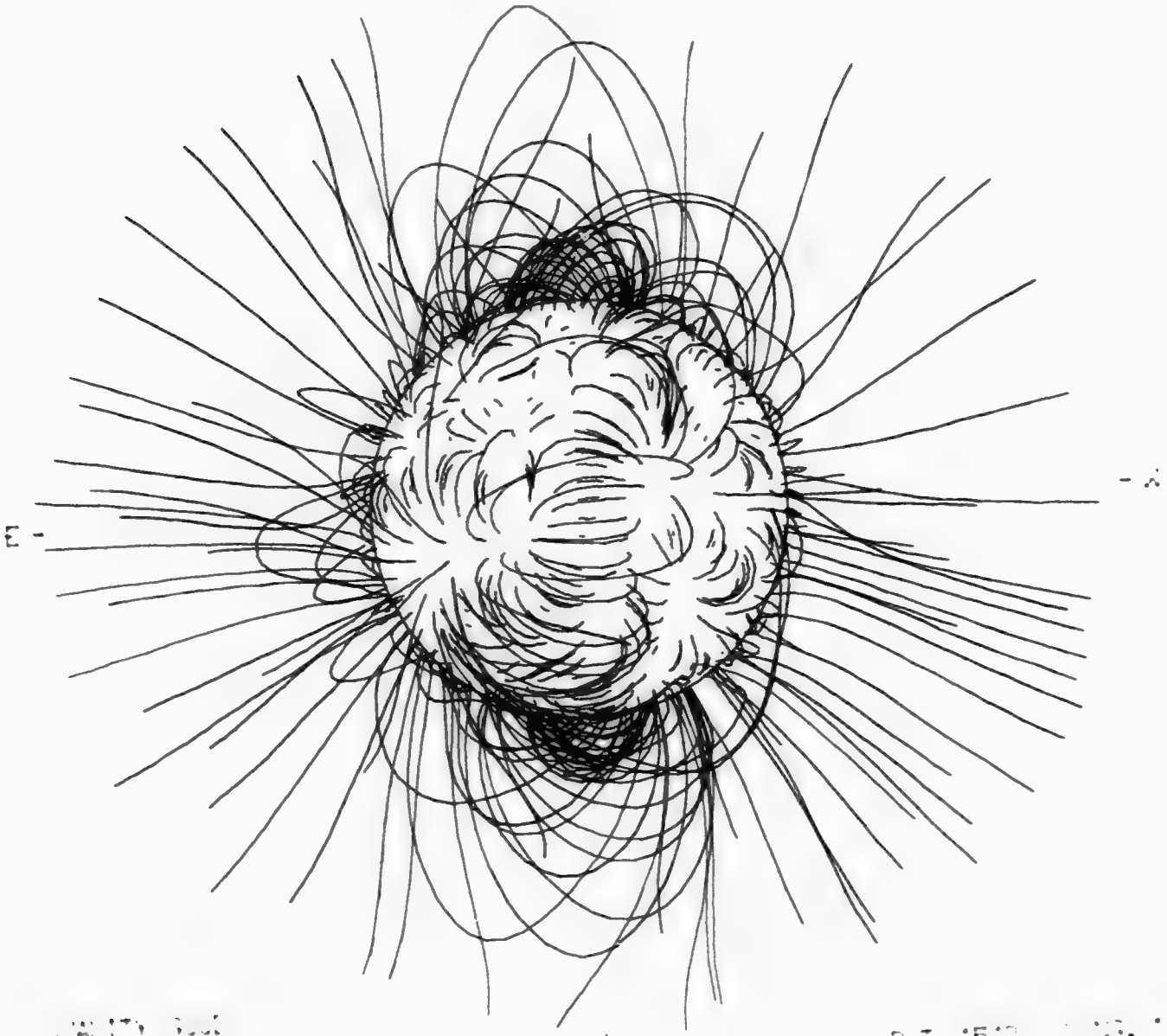
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



QUALITY [illegible]

POLES DIRECT

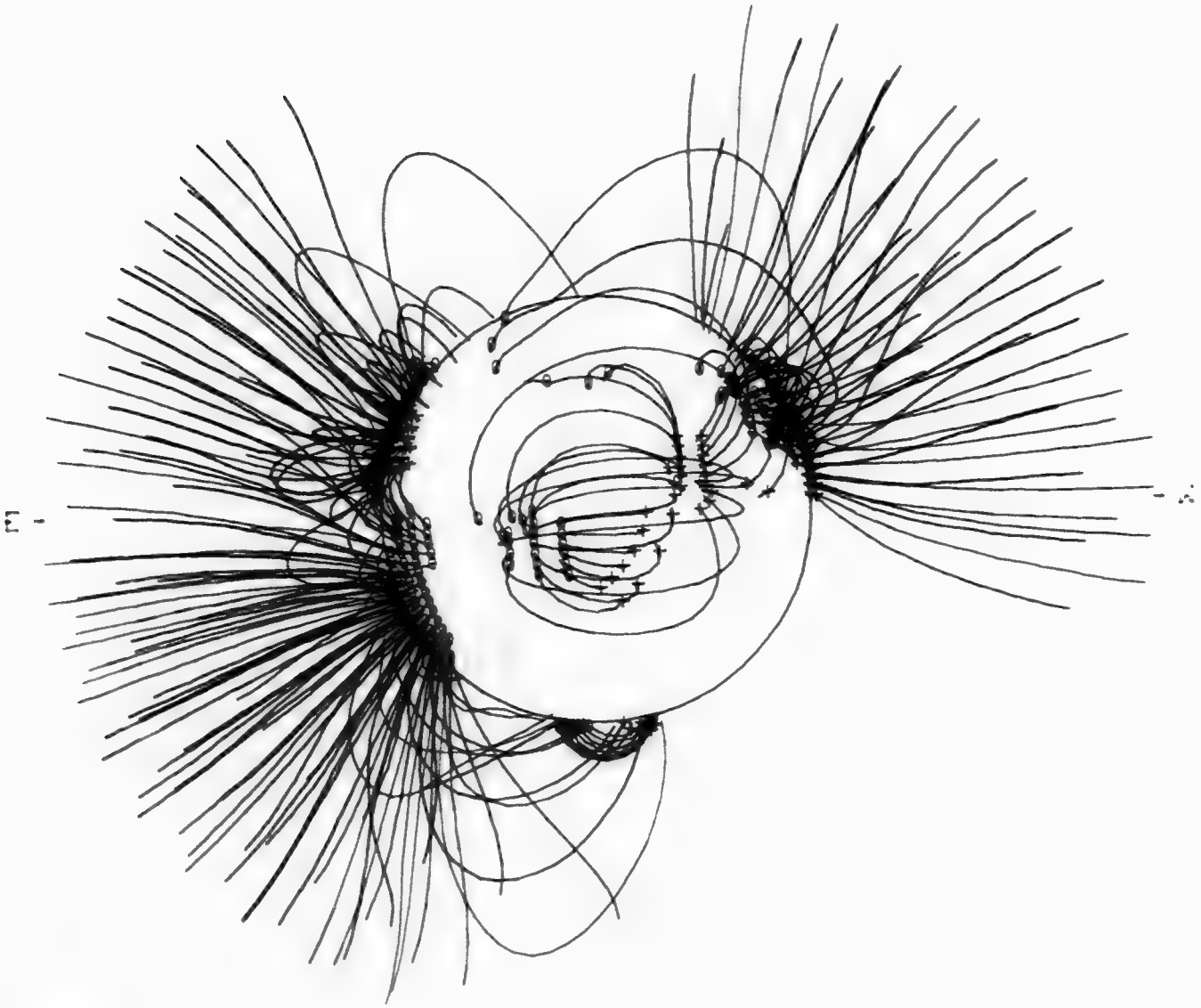
DATA [illegible] 1542.00

R.T. 1542 [illegible]

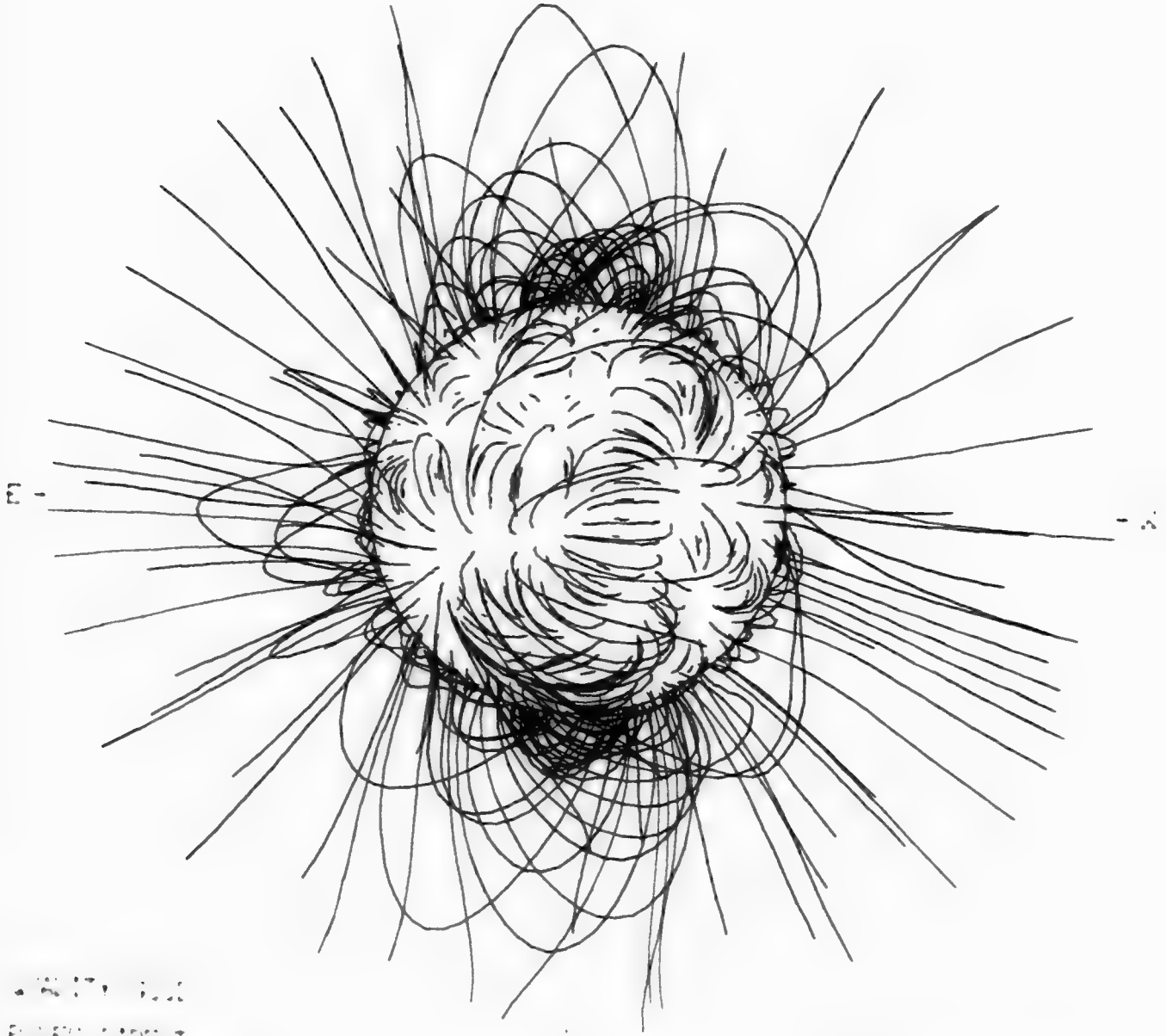
[illegible] 1968

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

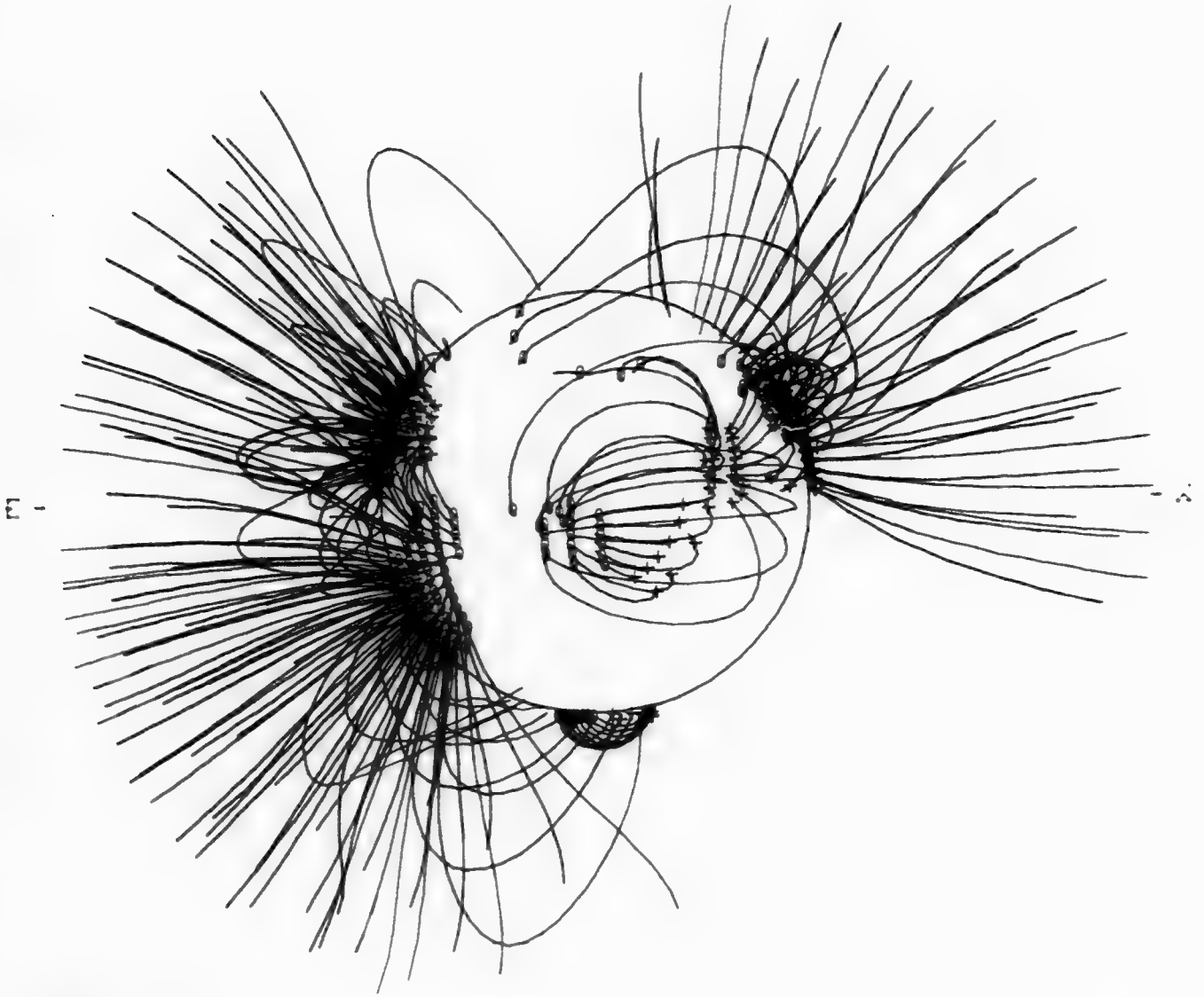
N



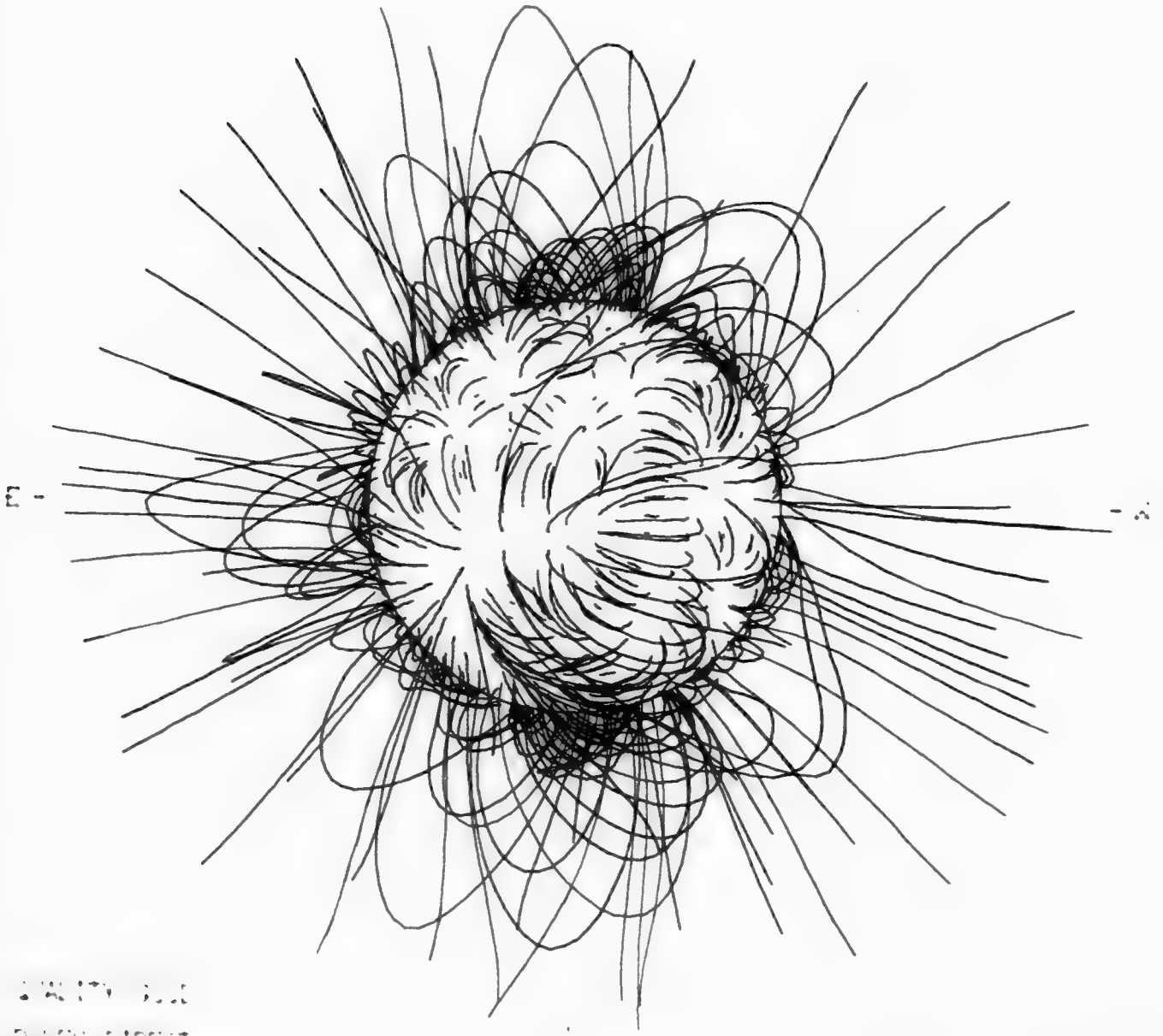
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



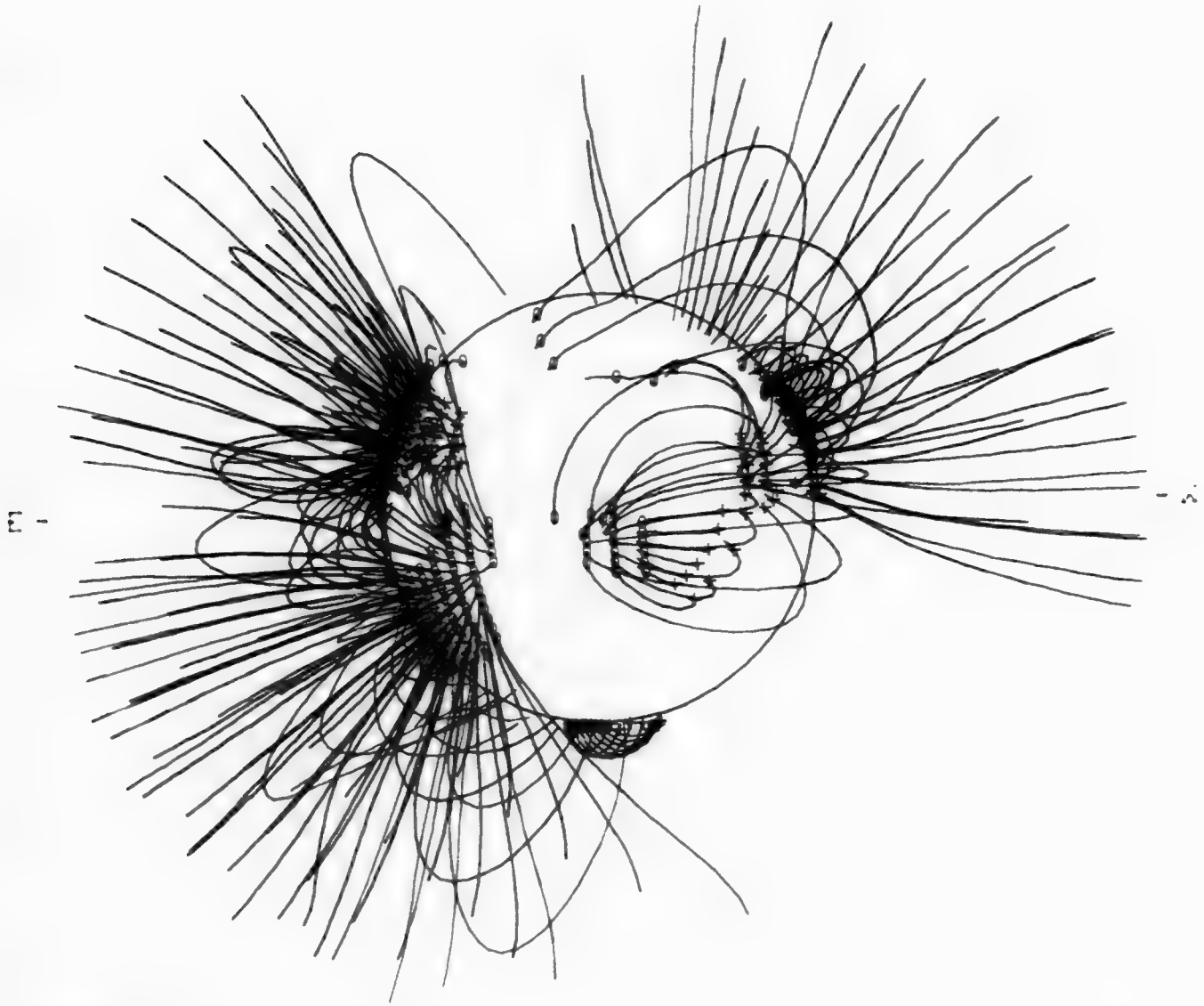
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



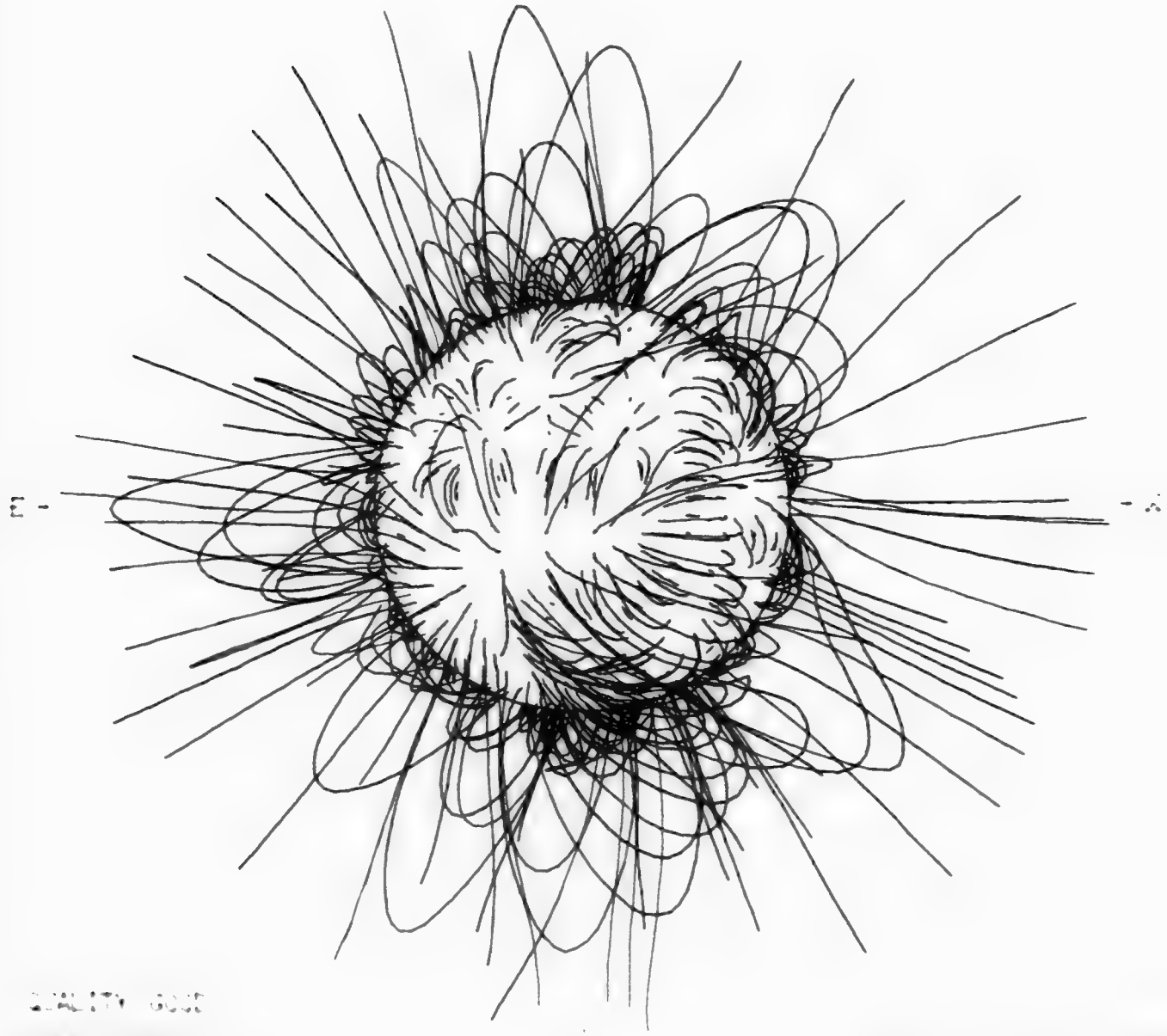
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



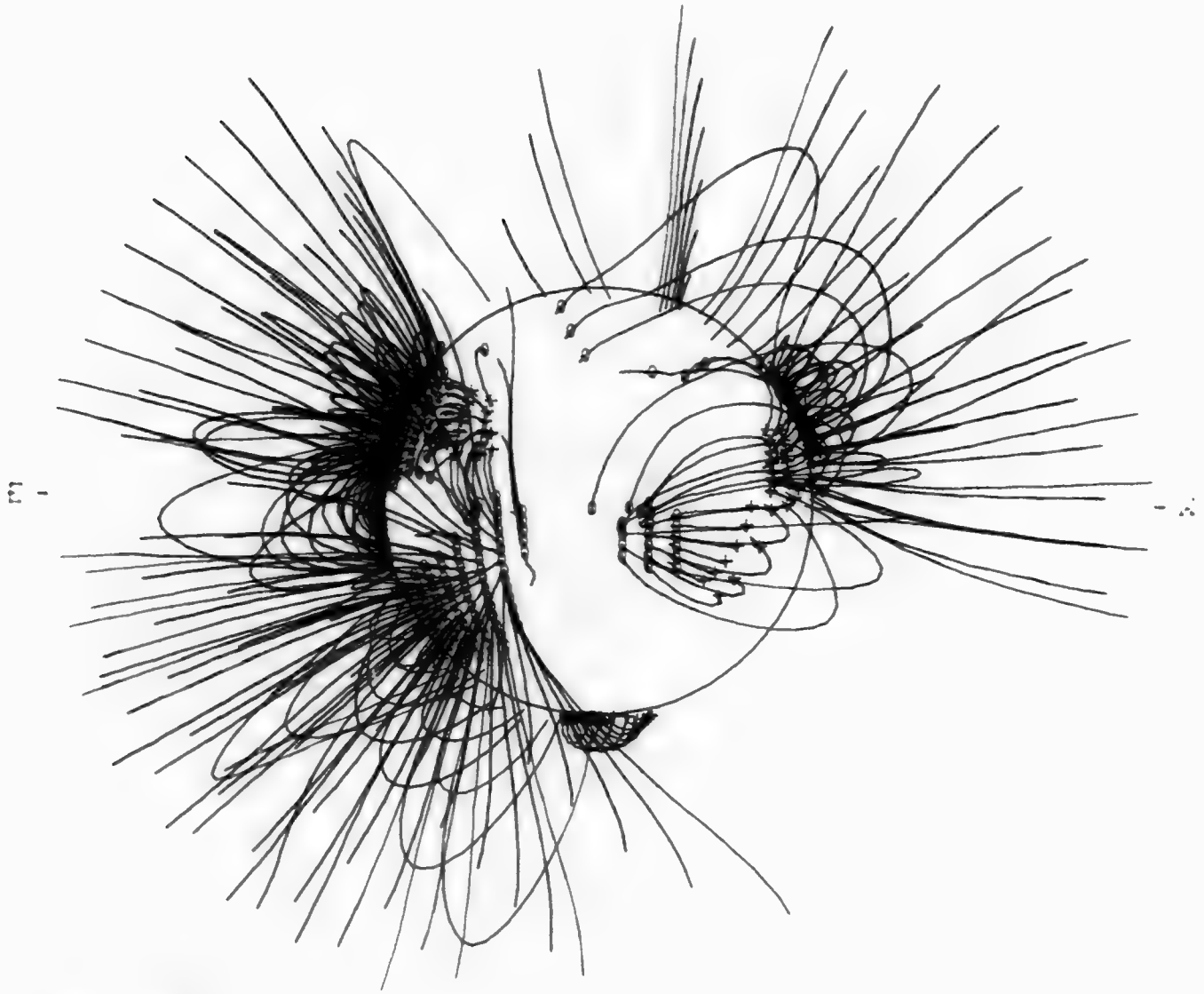
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



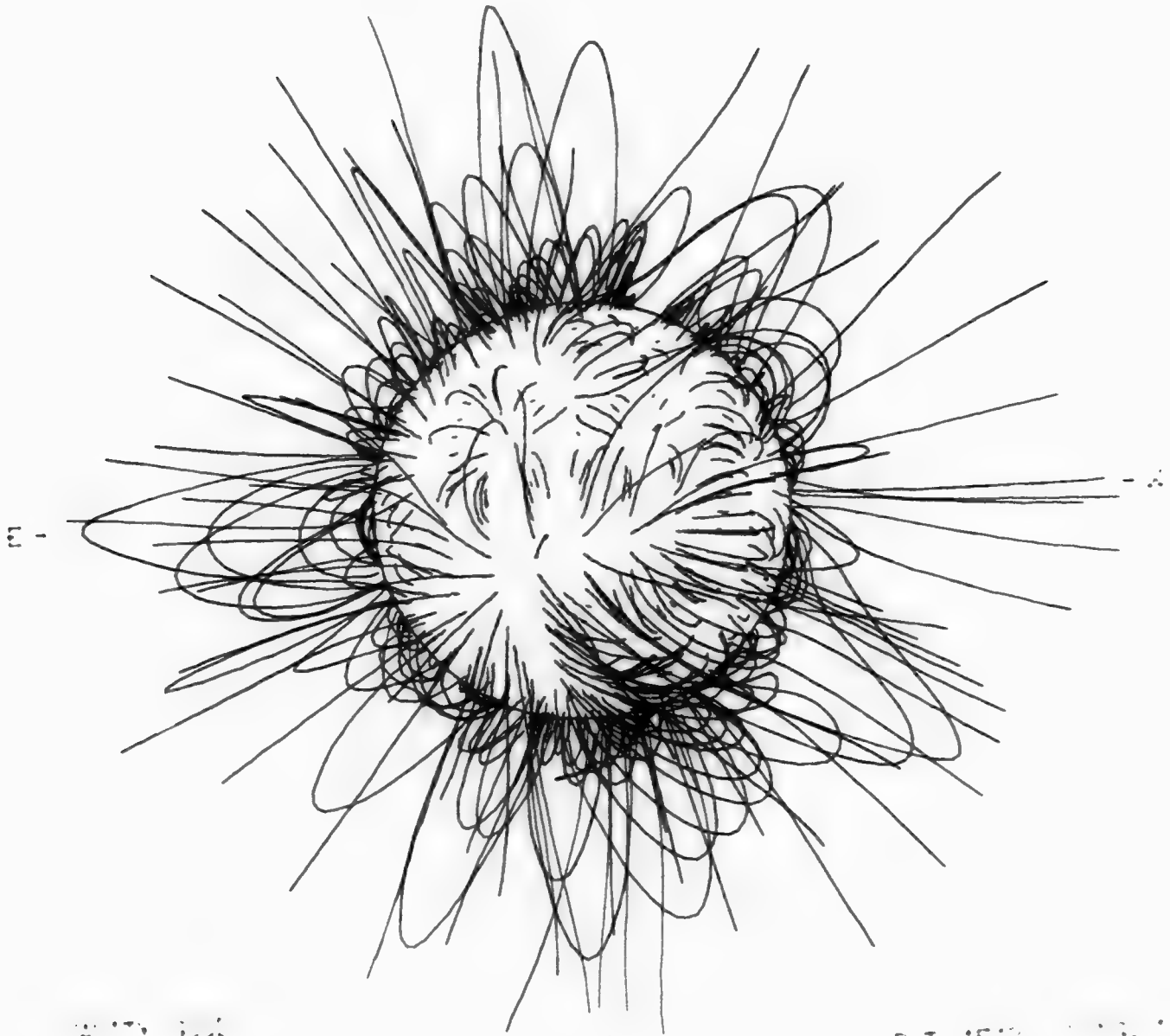
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



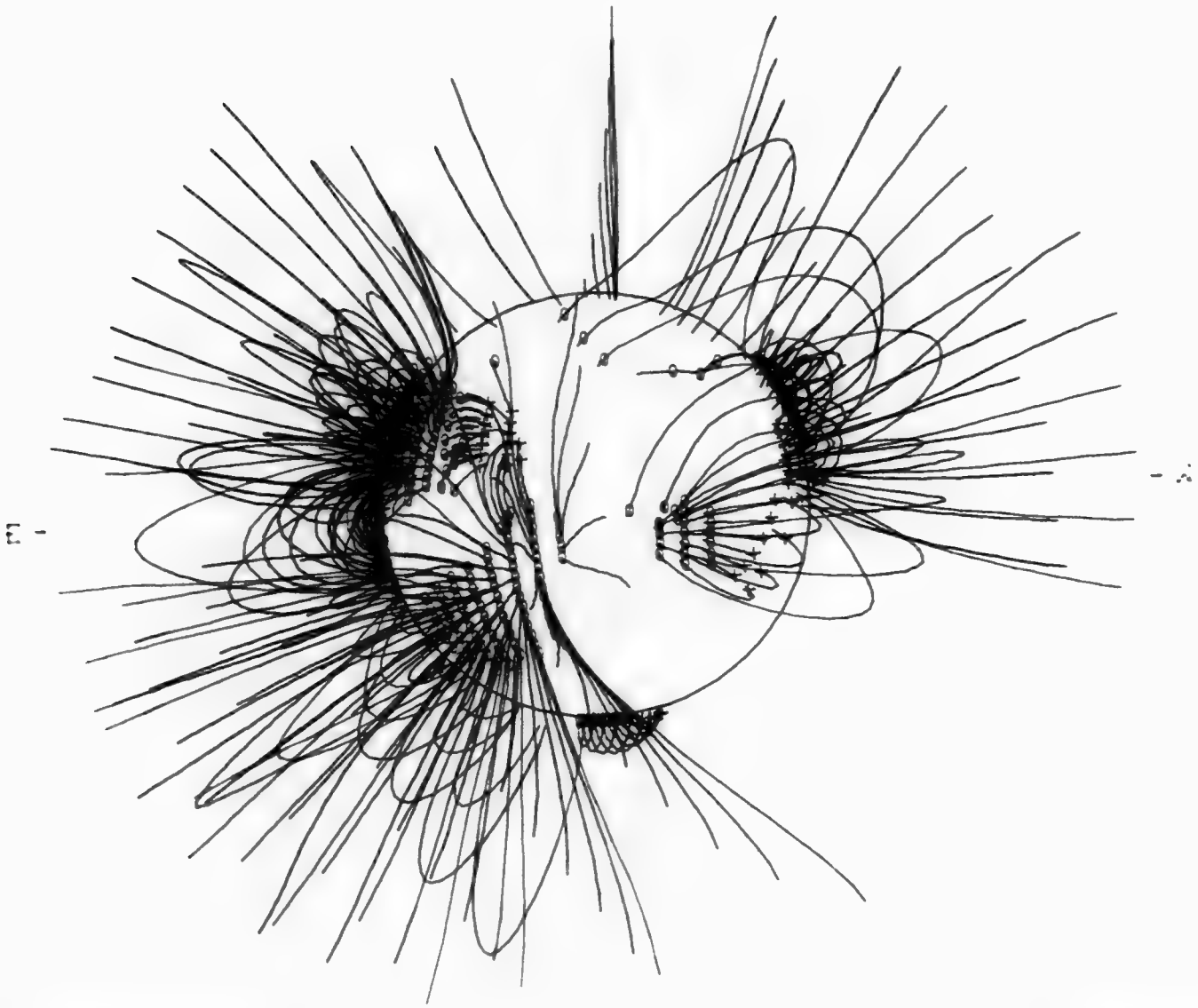
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



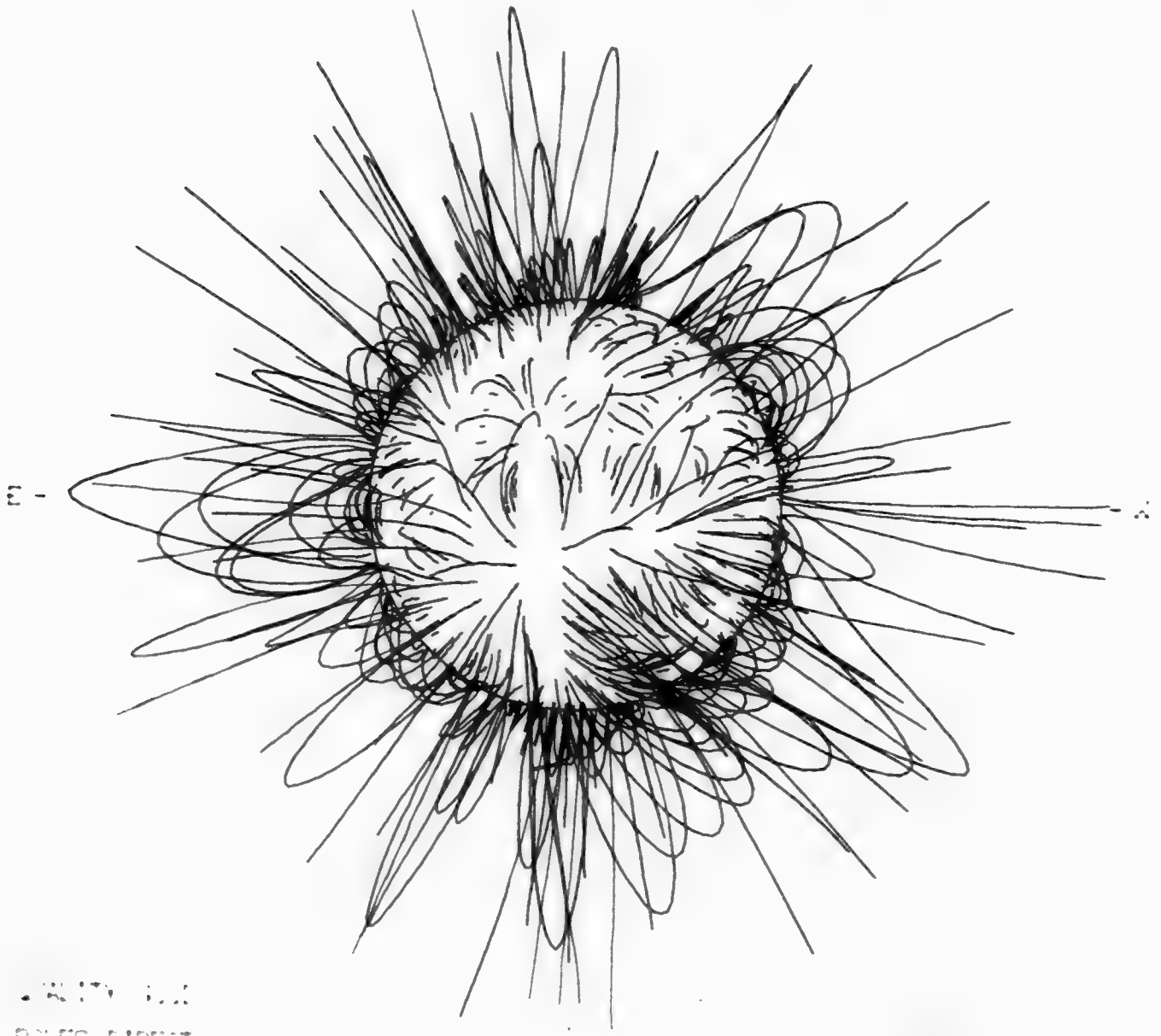
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



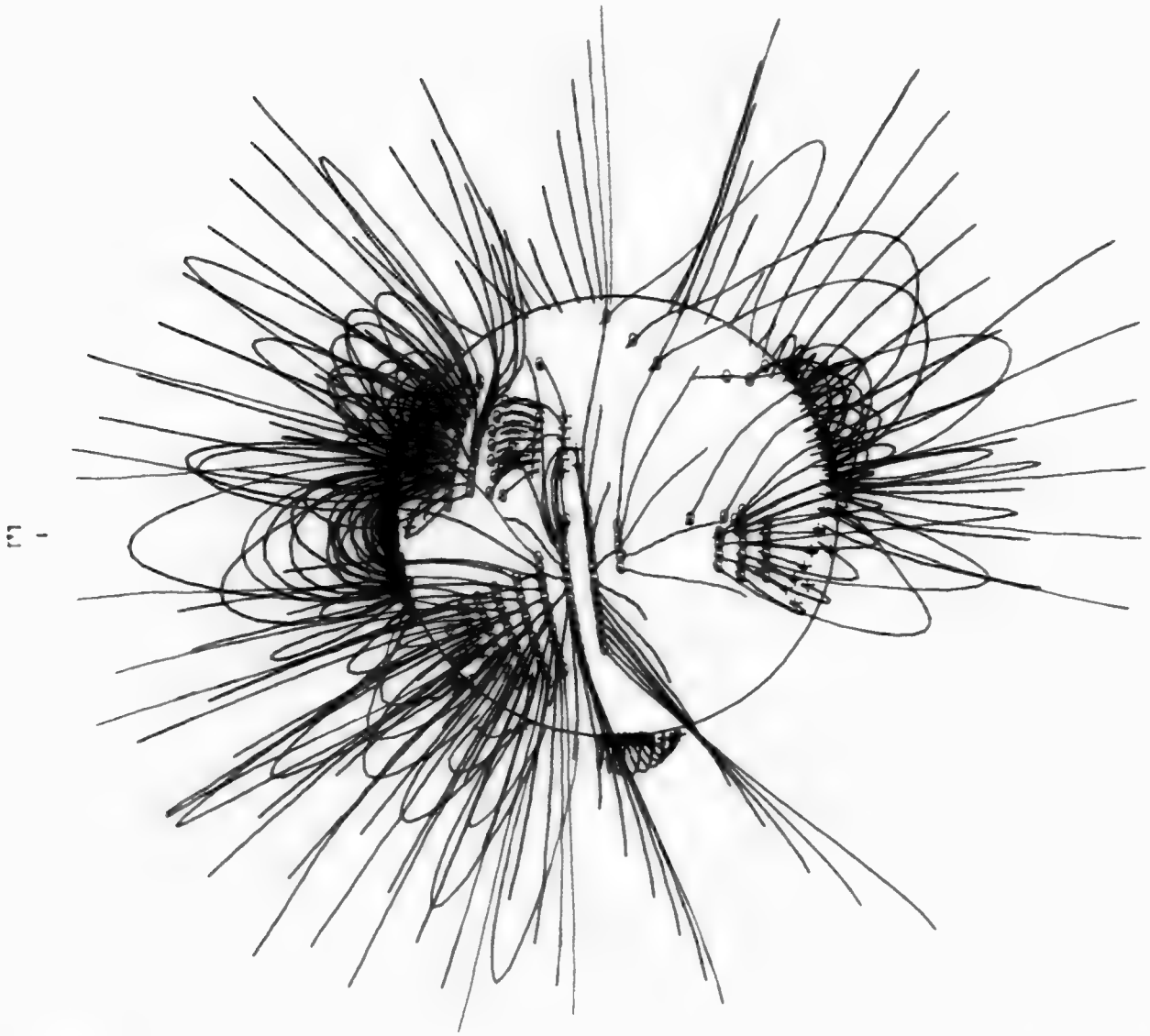
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



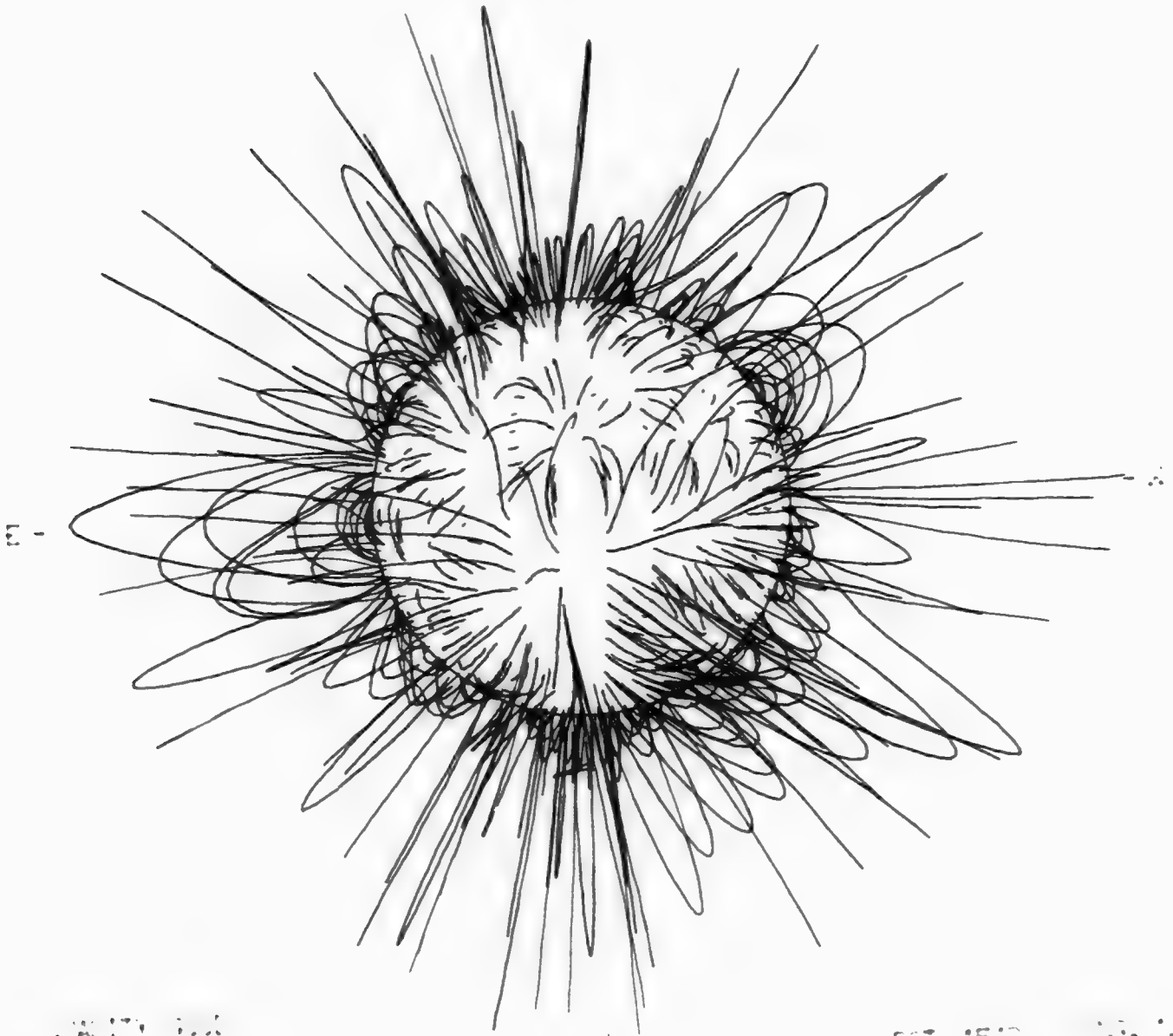
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



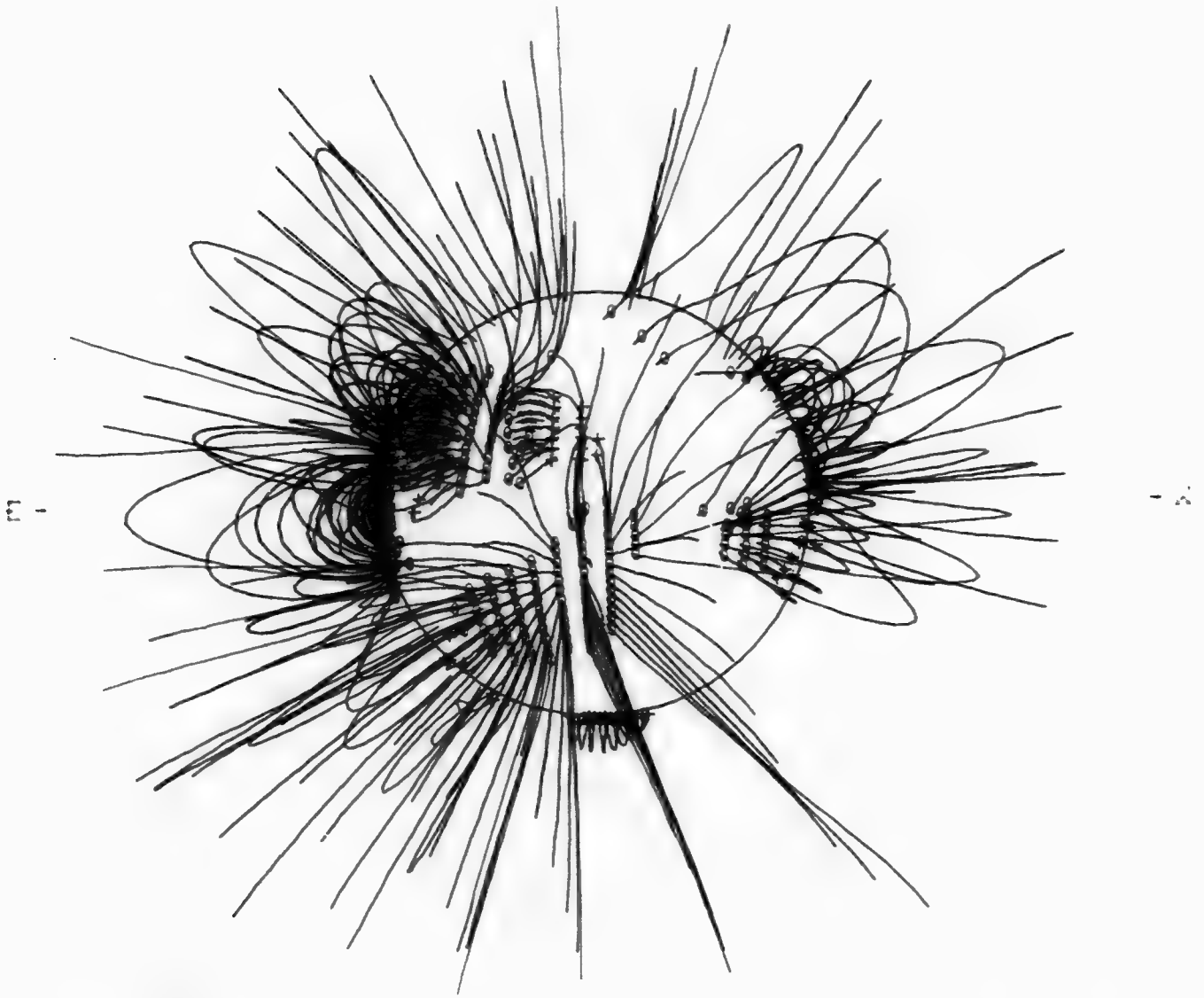
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



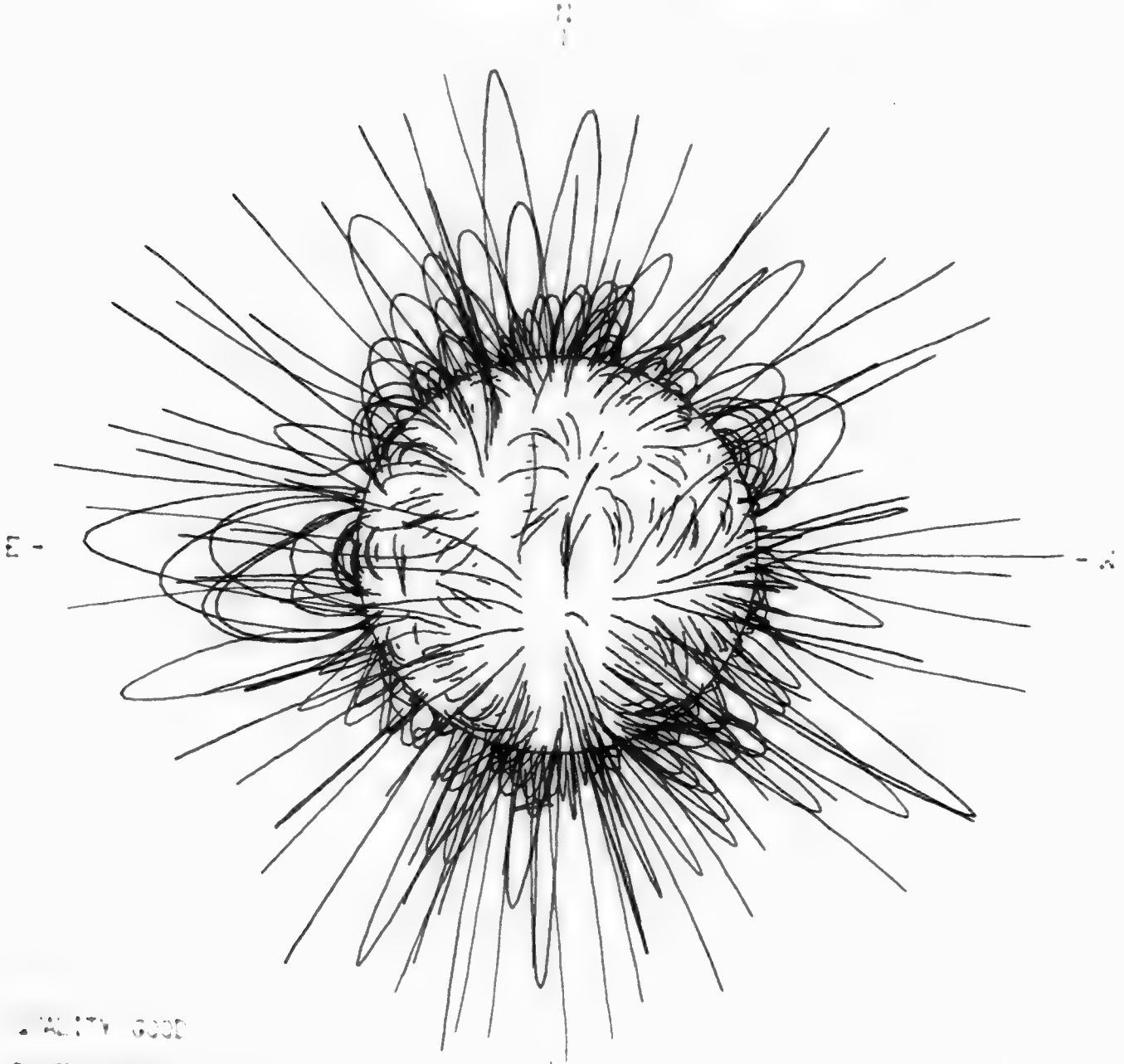
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



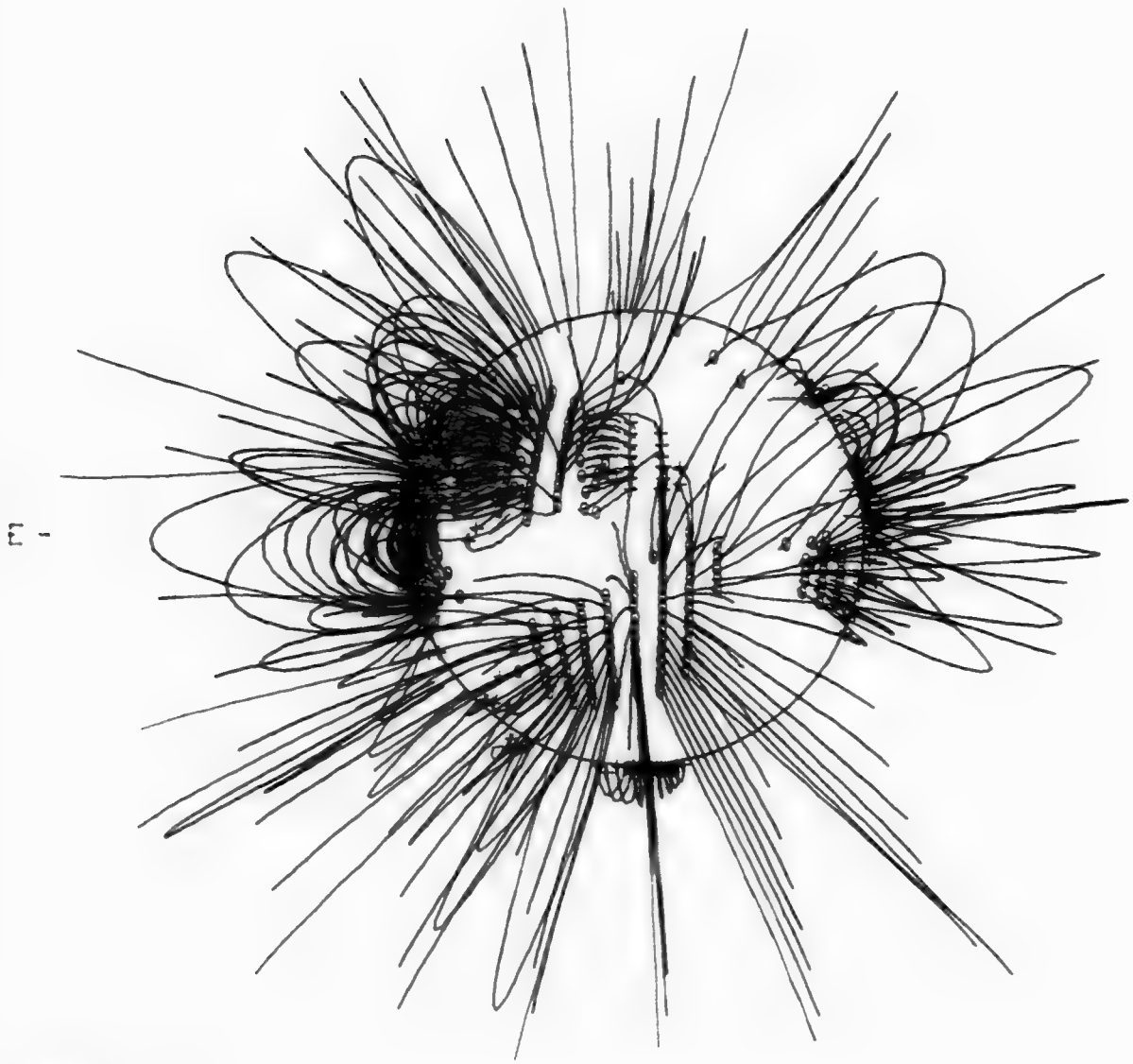
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



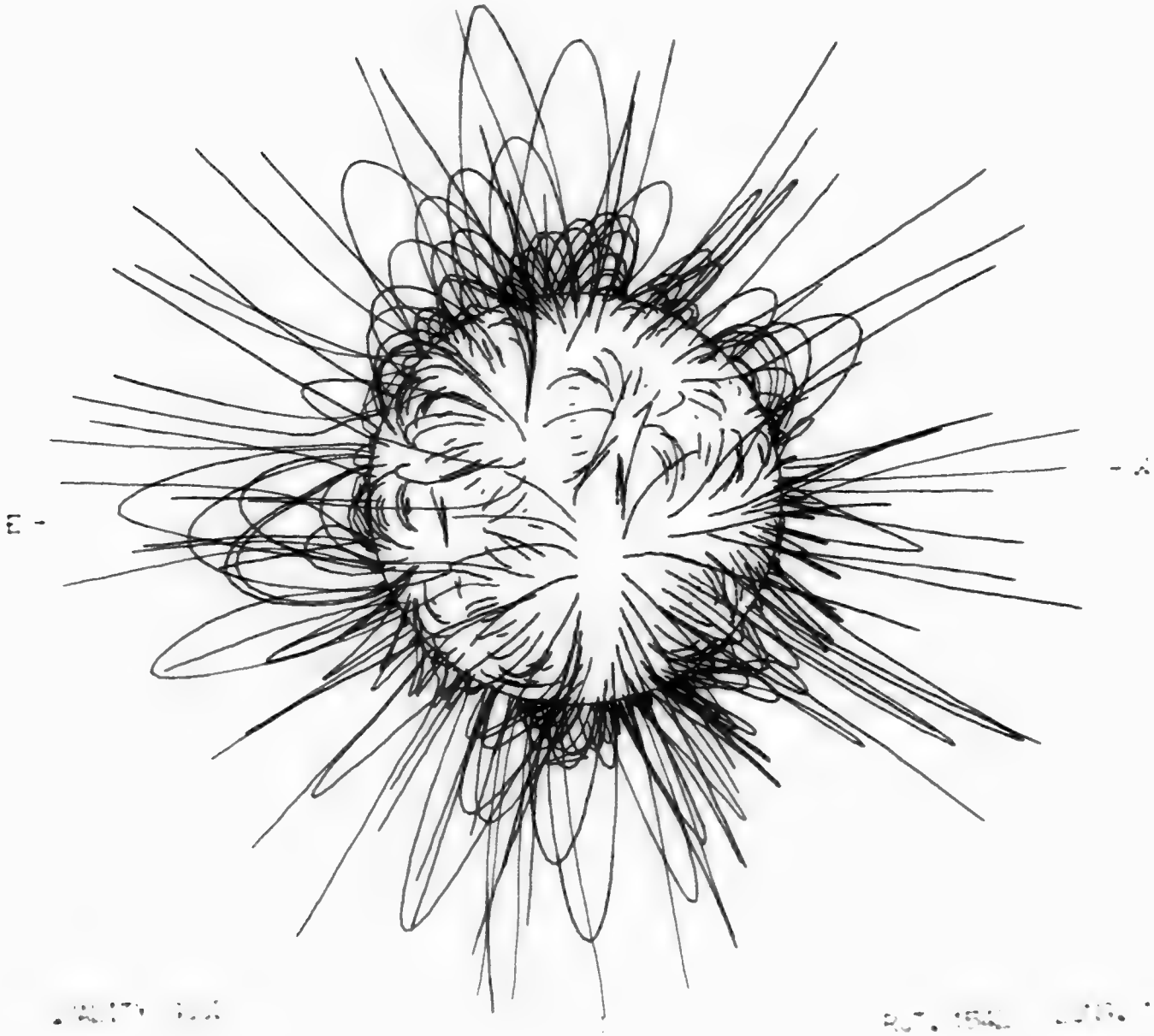
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



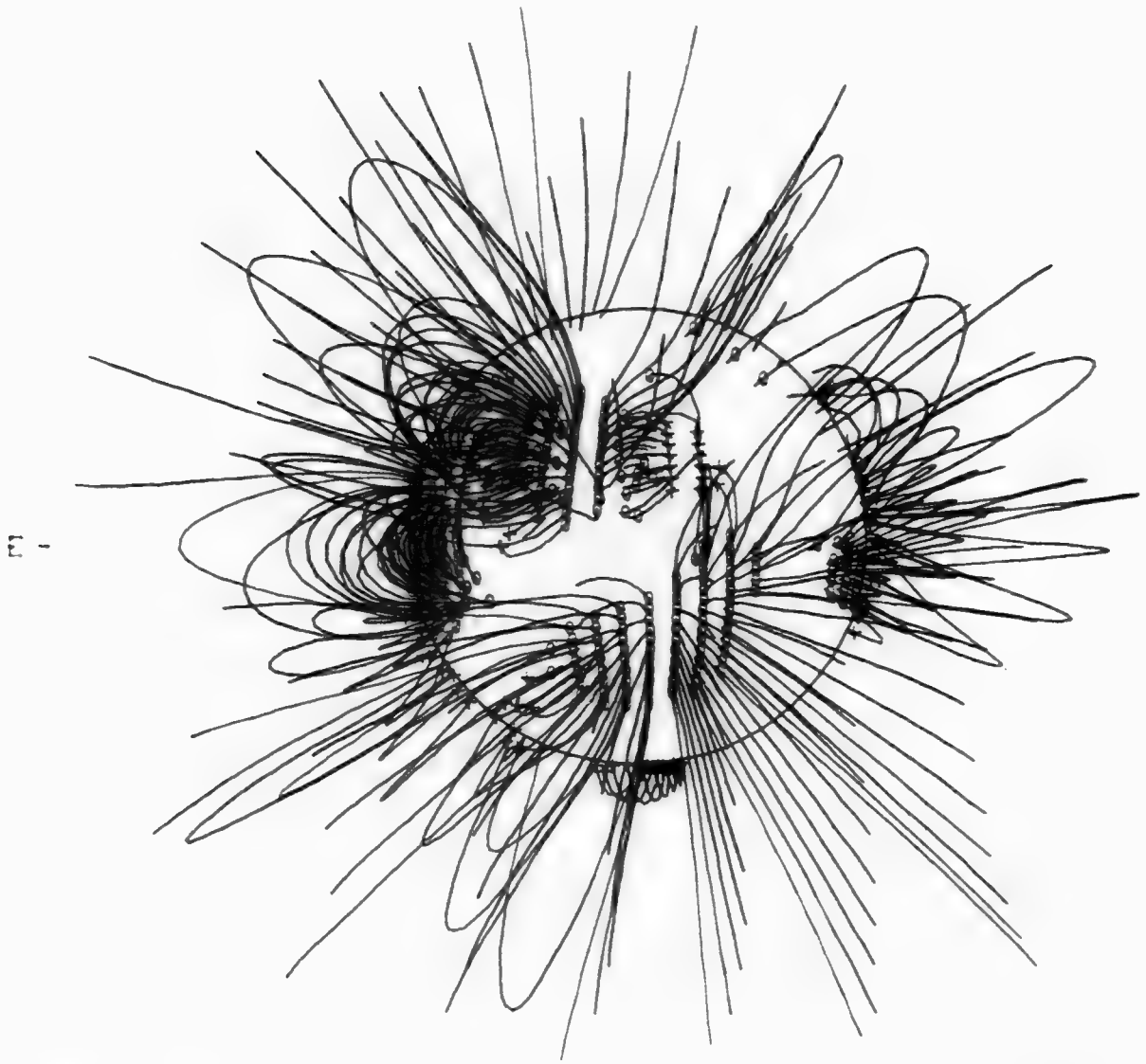
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



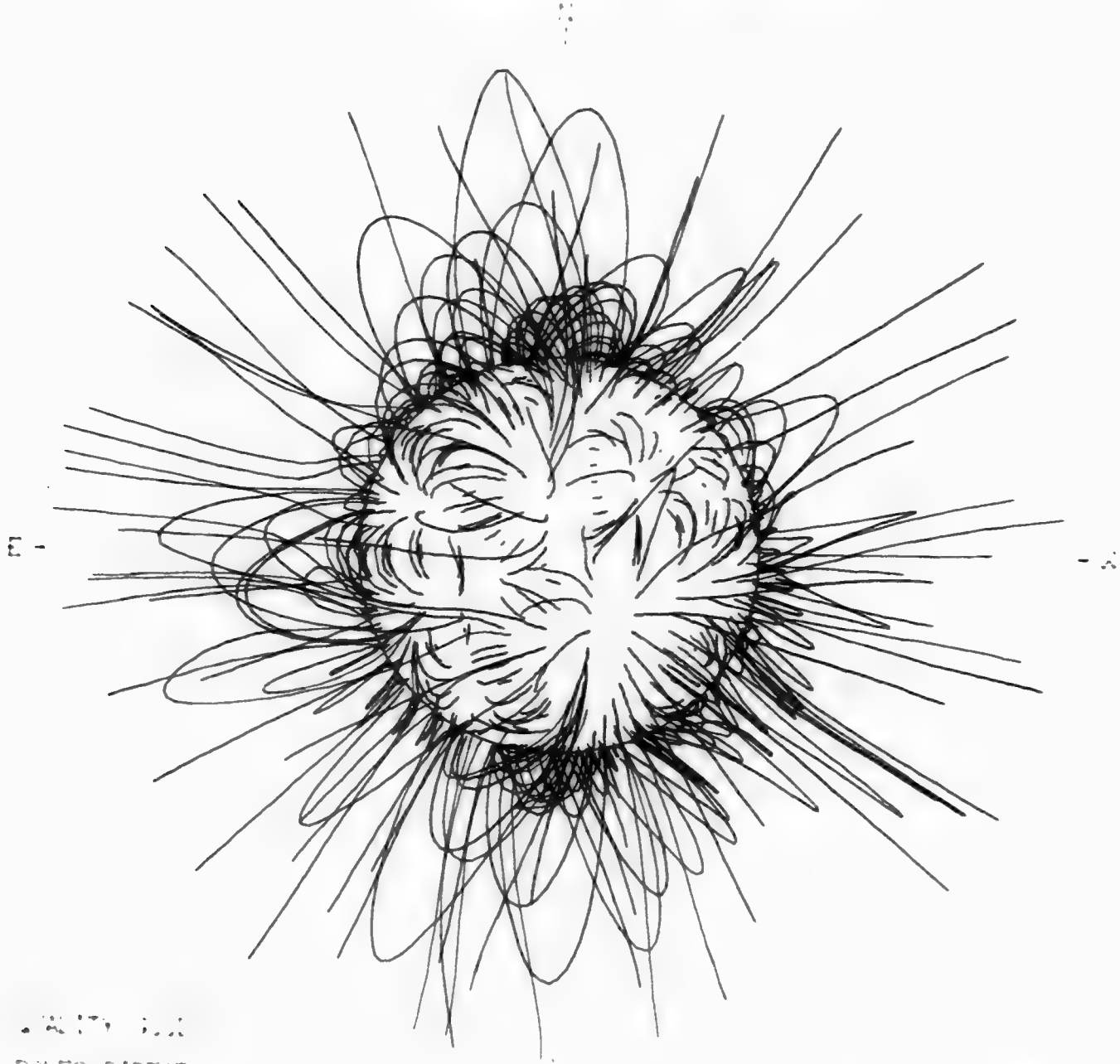
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



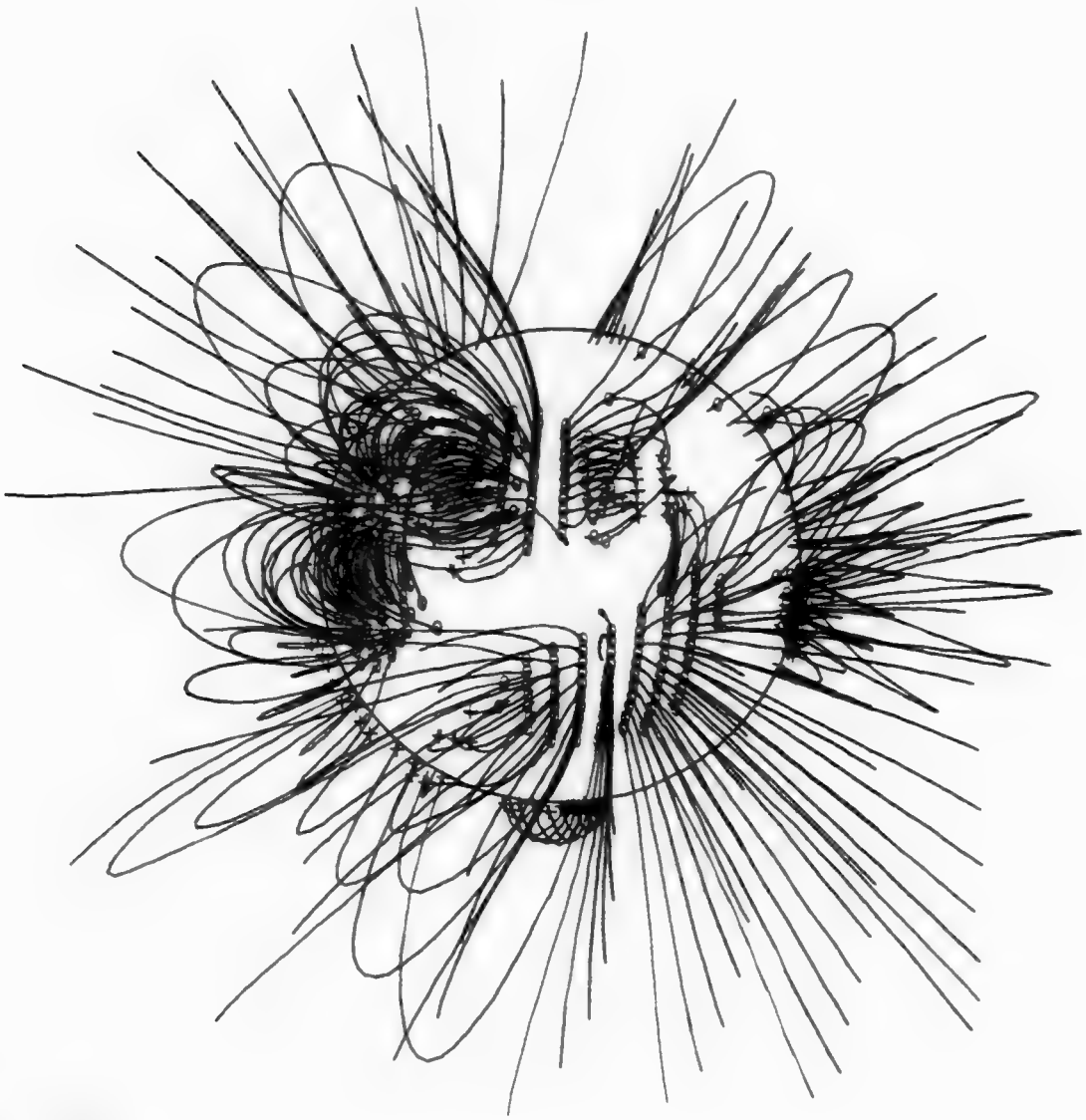
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



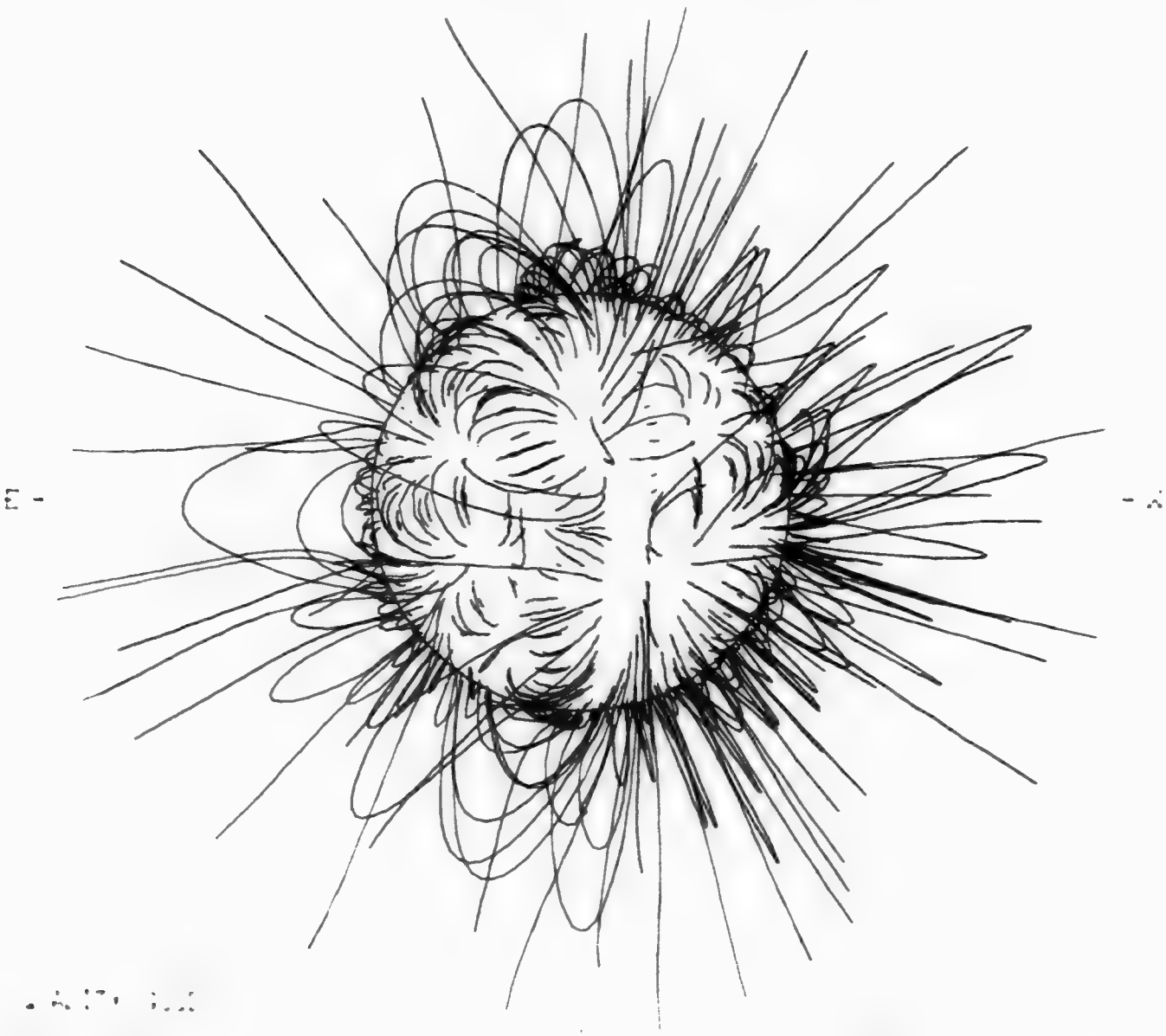
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



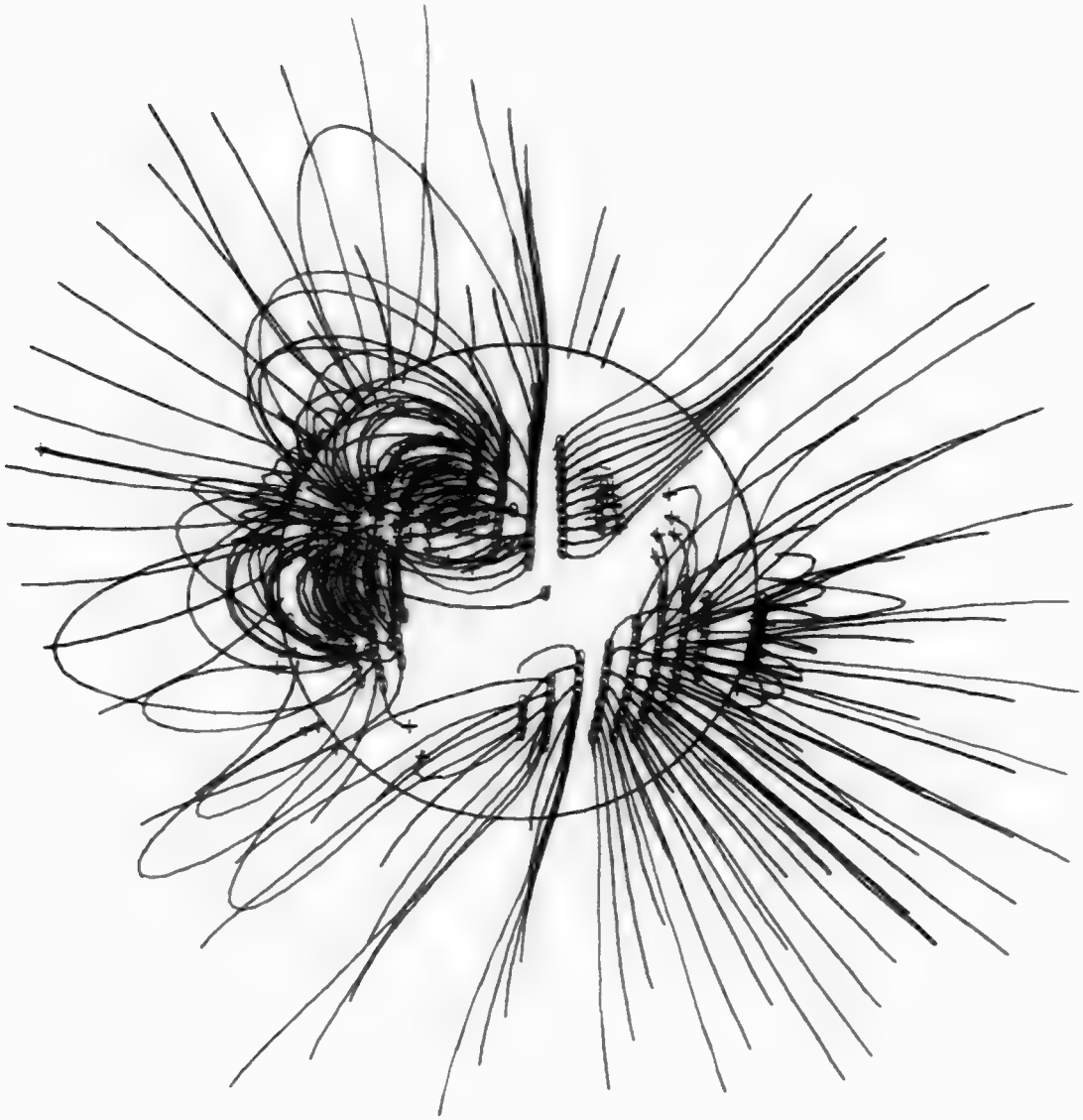
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



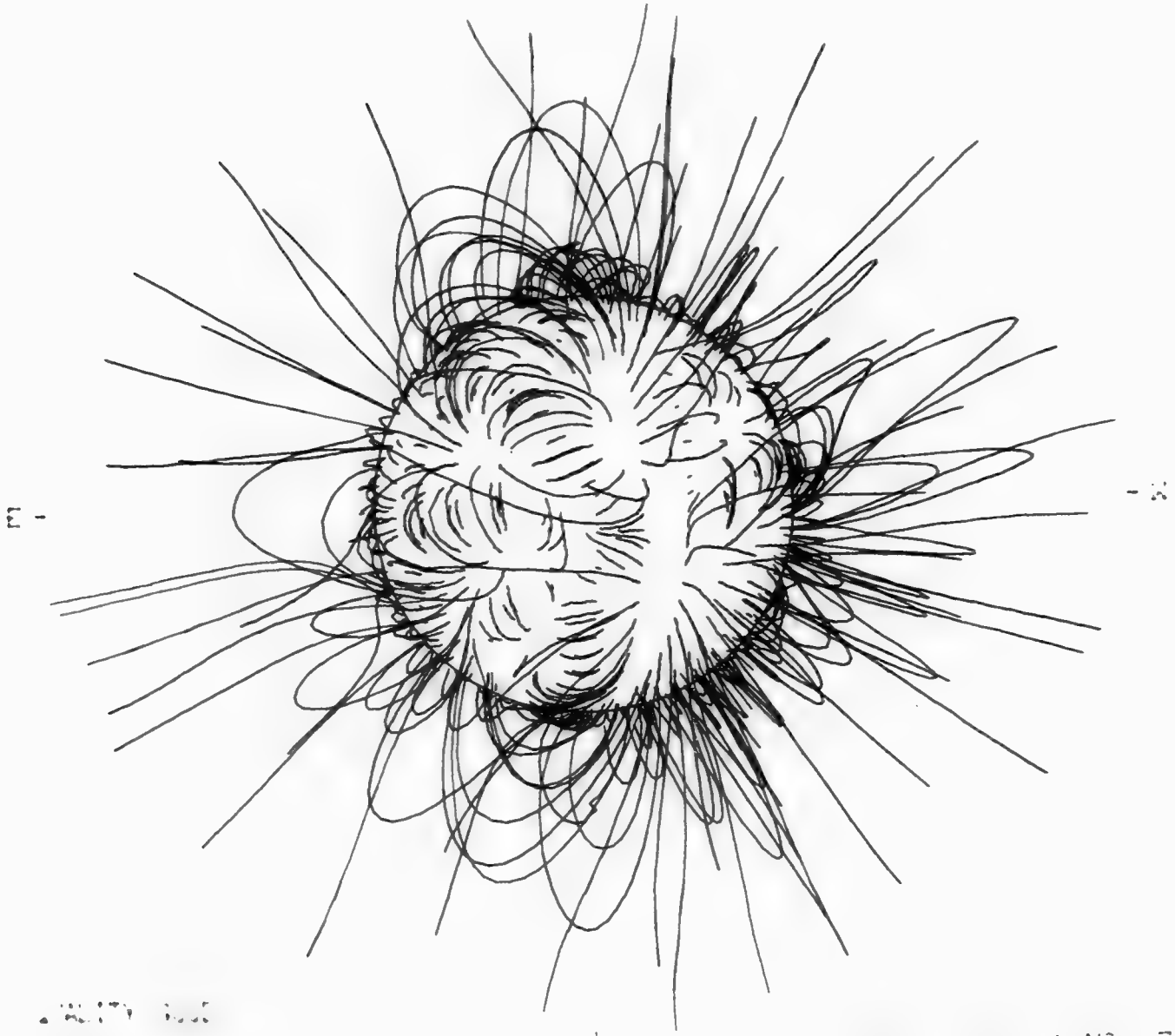
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



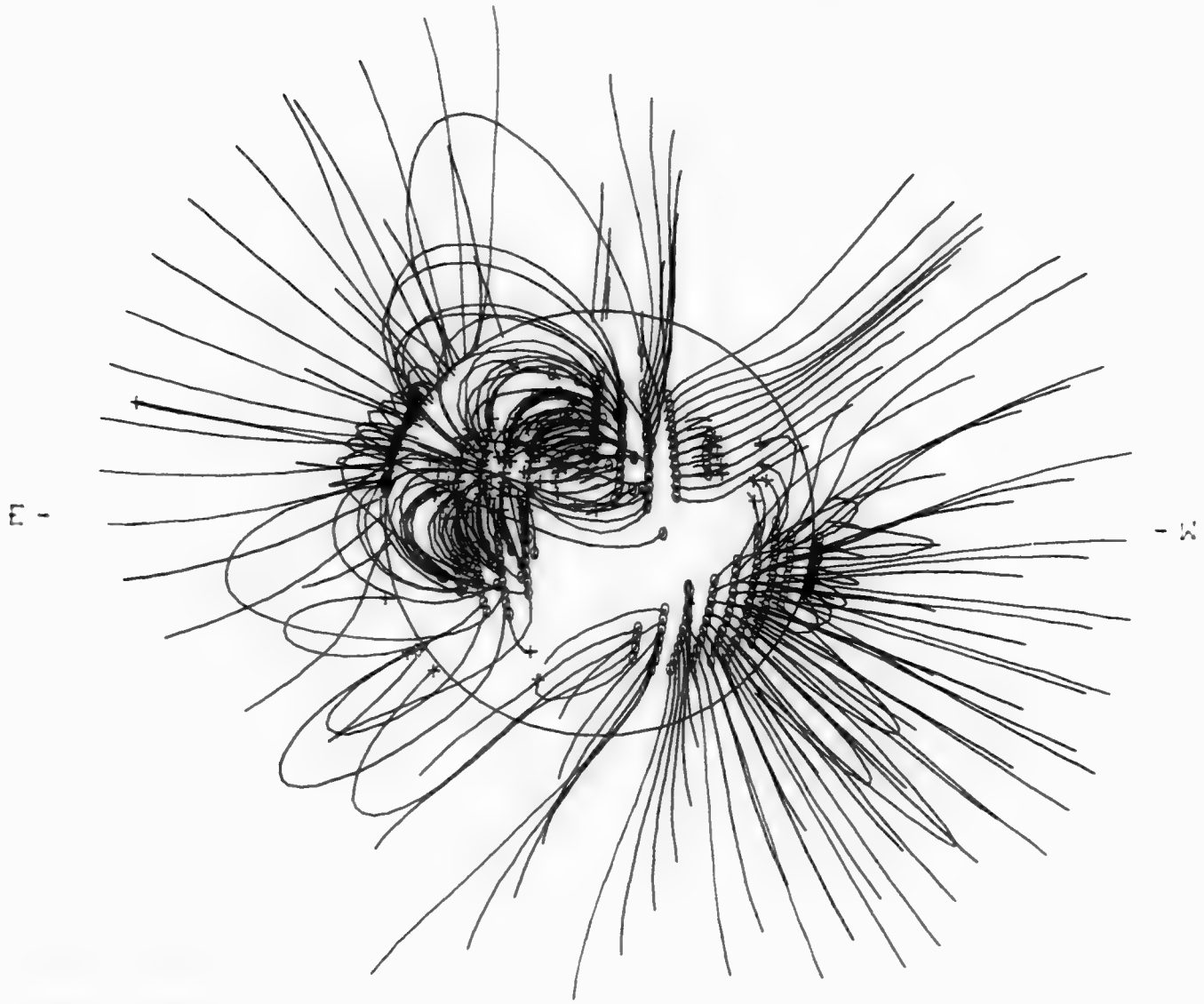
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



POLES DIRECT

ROT. 1542 LONG. 70°

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



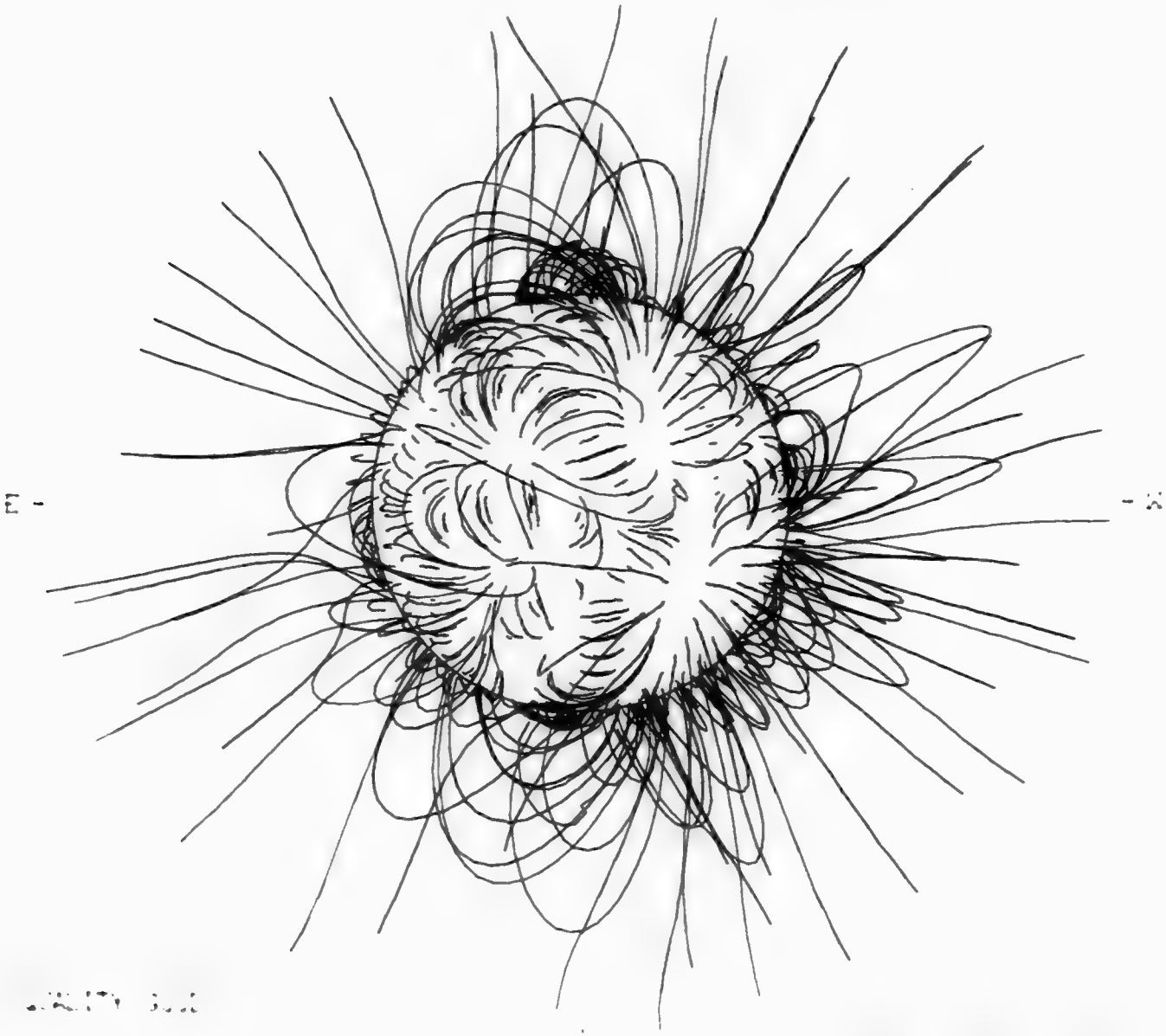
POLES DIRECT

DATA WINDOW 1542.47

ROT. 1542 LONG. 71°

30.0 DEC 1968

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



QUALITY 3.0

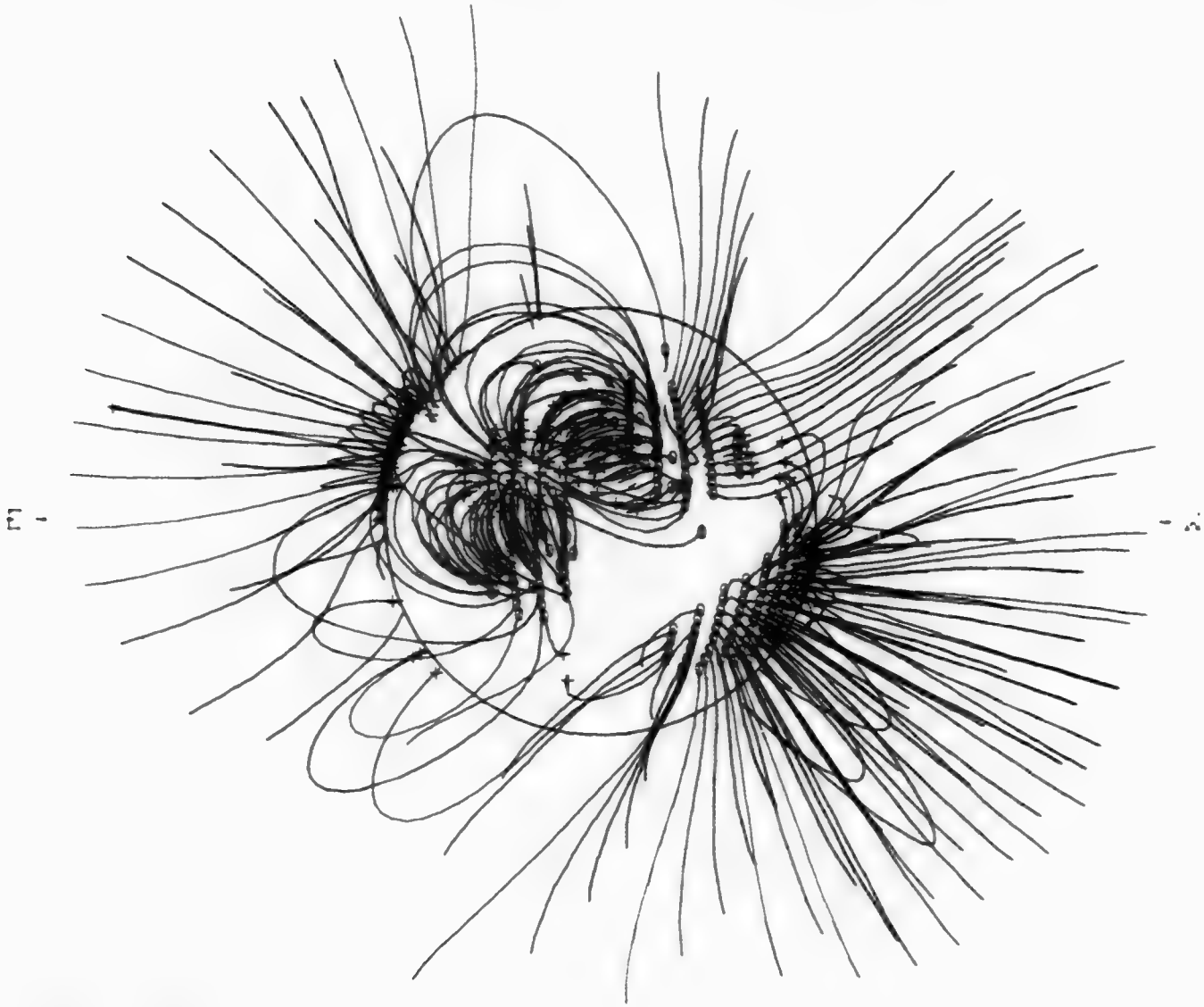
POLES DIRECT

DATA WINDOW 1542.4°

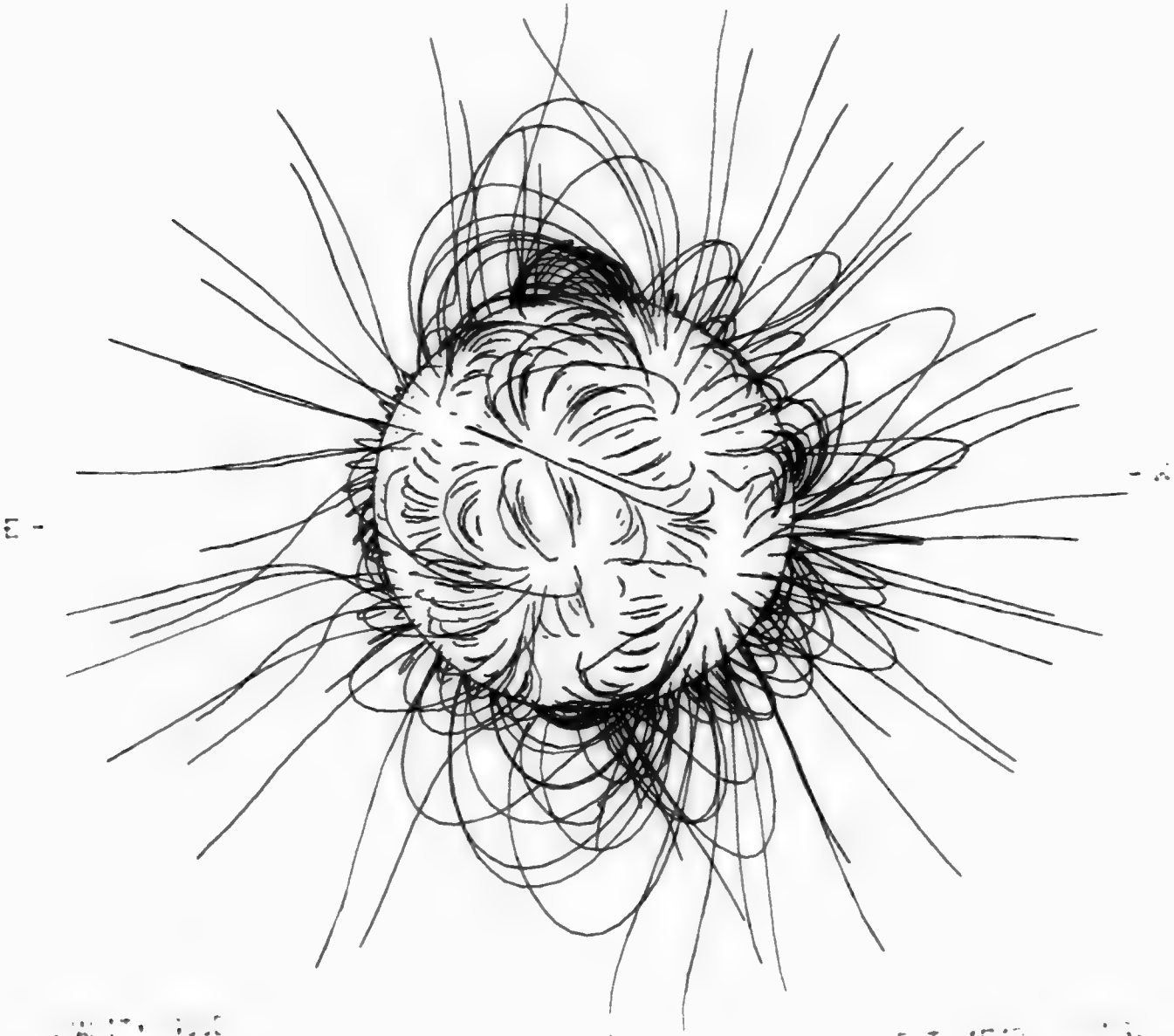
ROT. 1542 LONG. 41°

30.8 DEC 1968

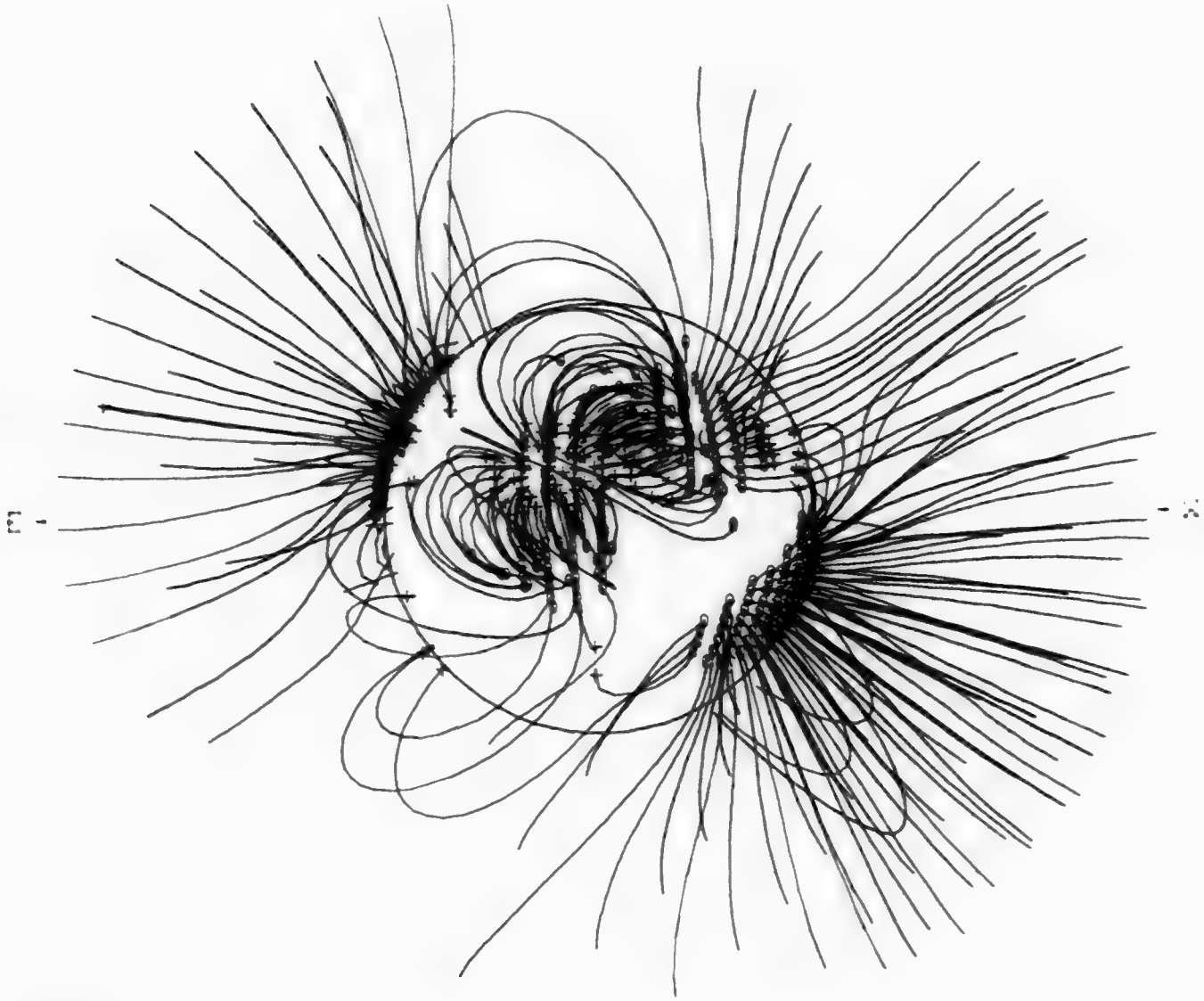
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

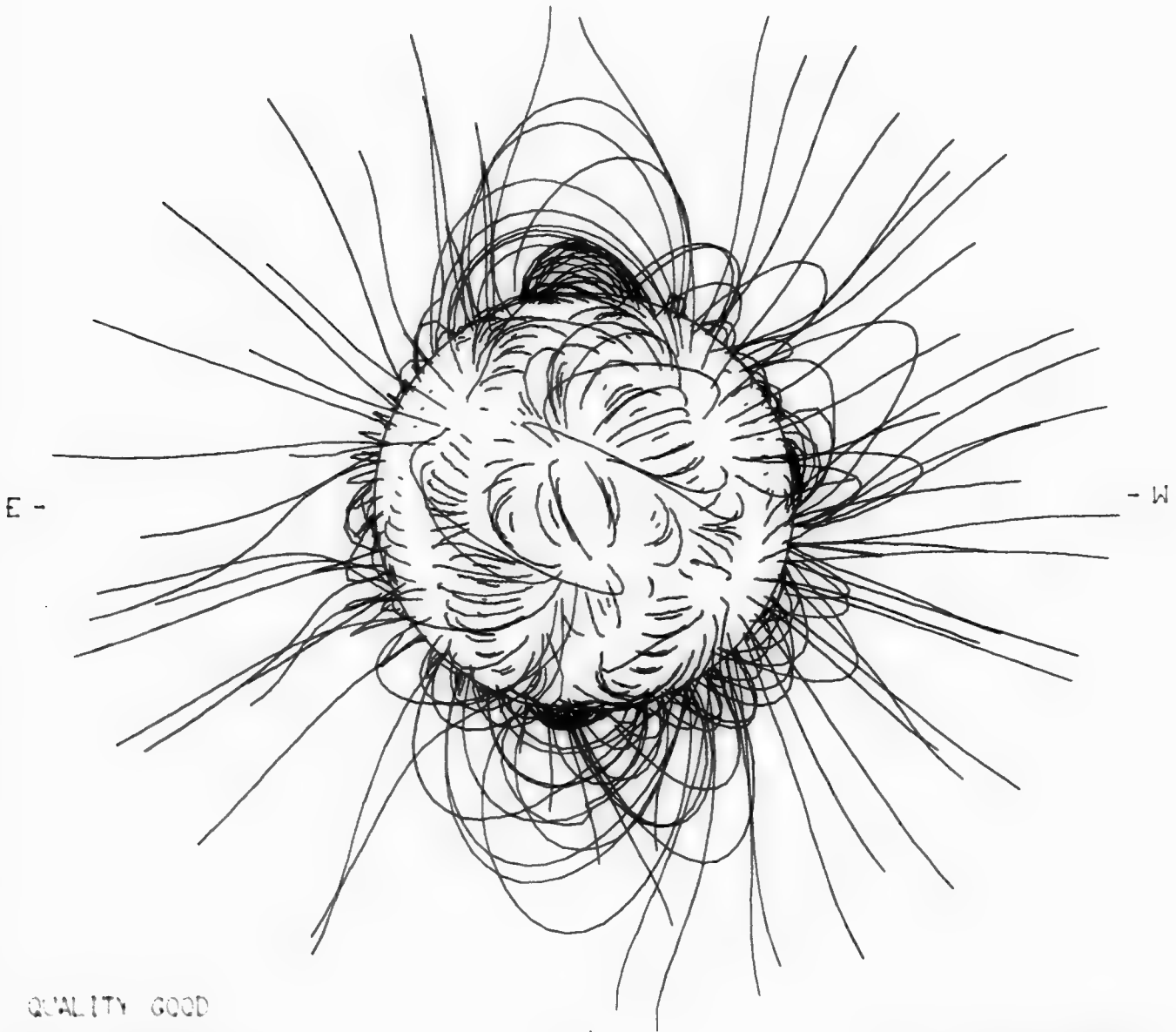


QUALITY GOOD

POLES DIRECT

DATA ARCHIVE "RADLAB"

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



QUALITY GOOD

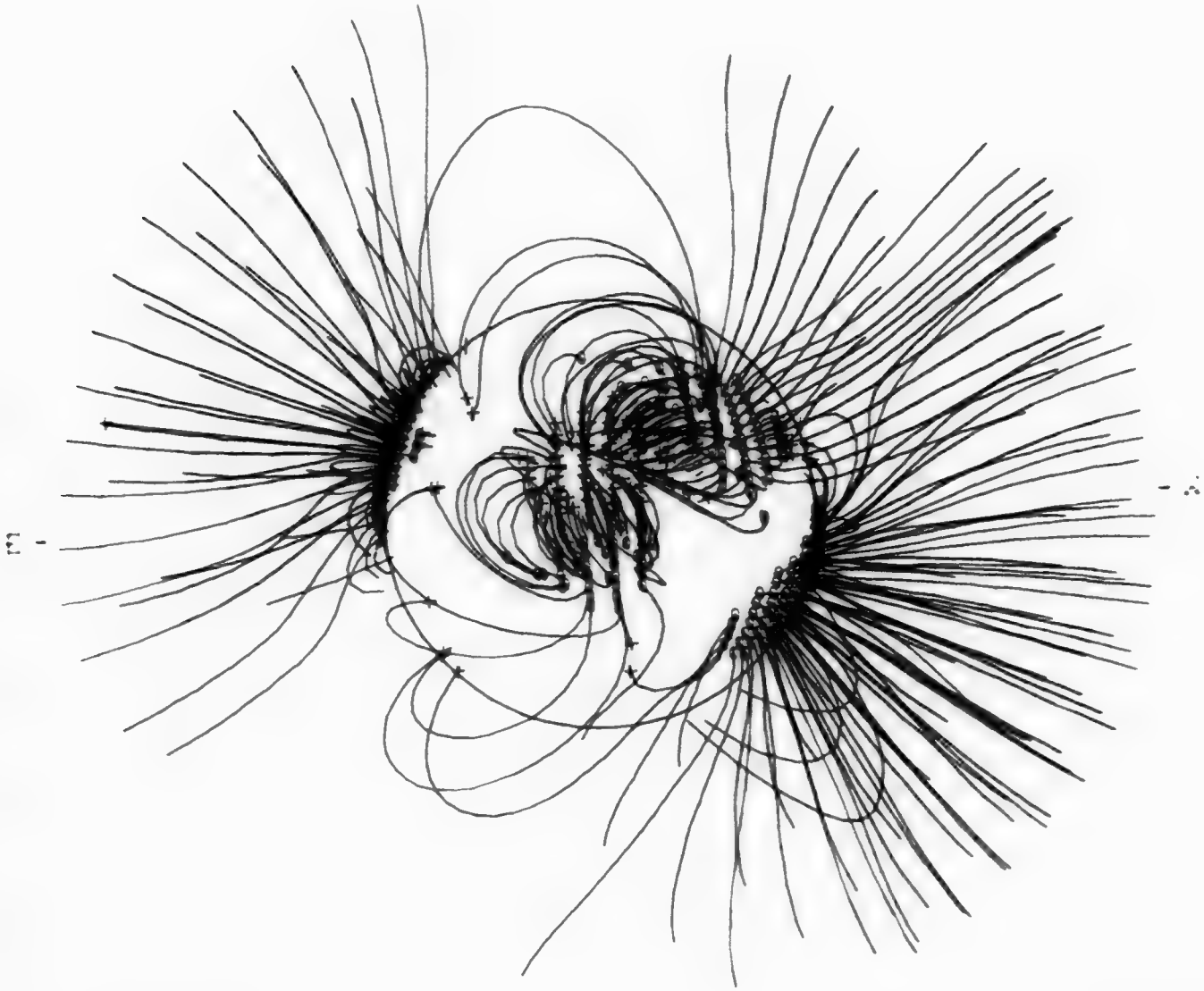
POLES DIRECT

DATA WINDOW 1542.47

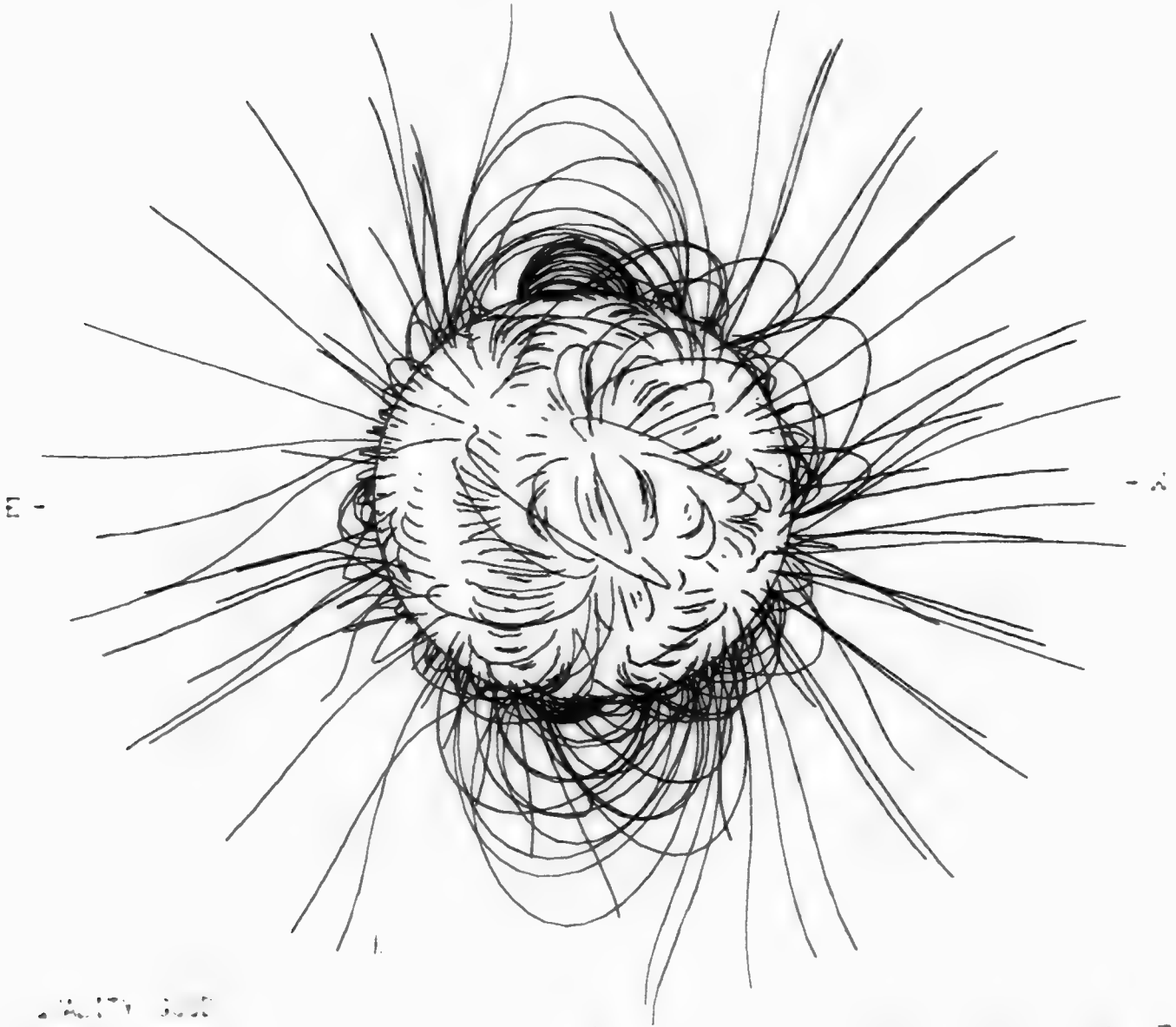
ROT. 1542 LONG. 40°

13 JAN 1969

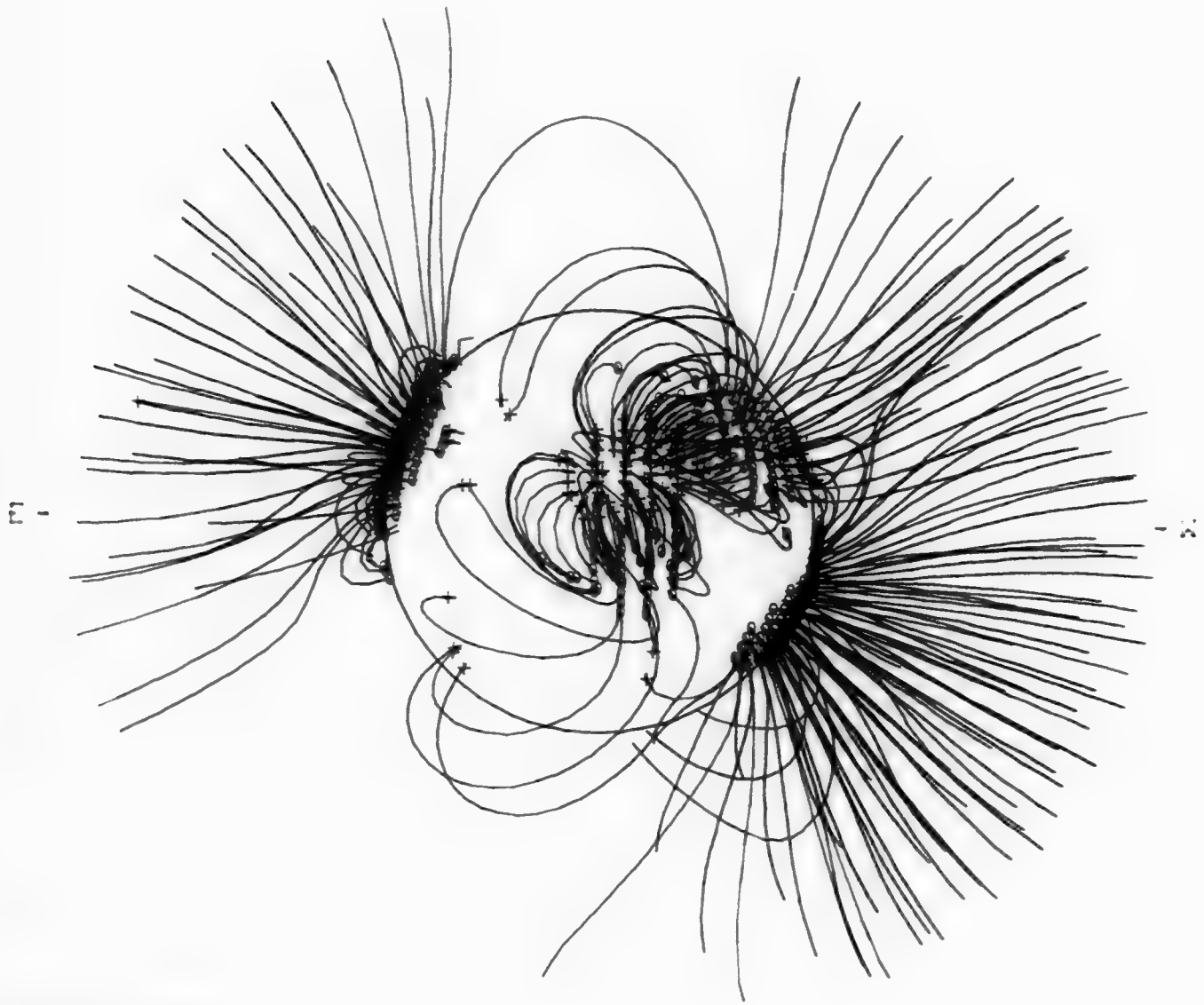
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



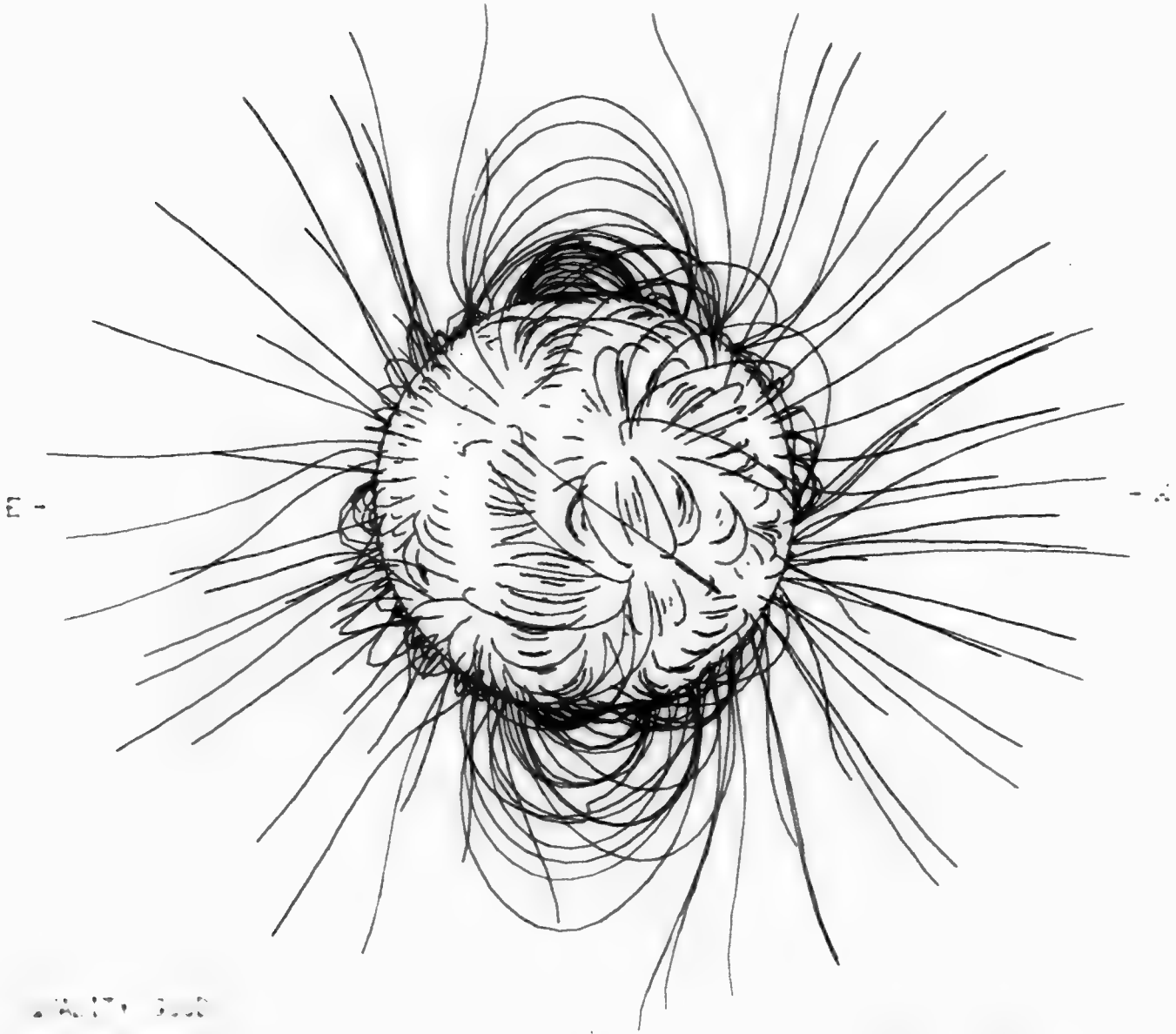
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N

E -

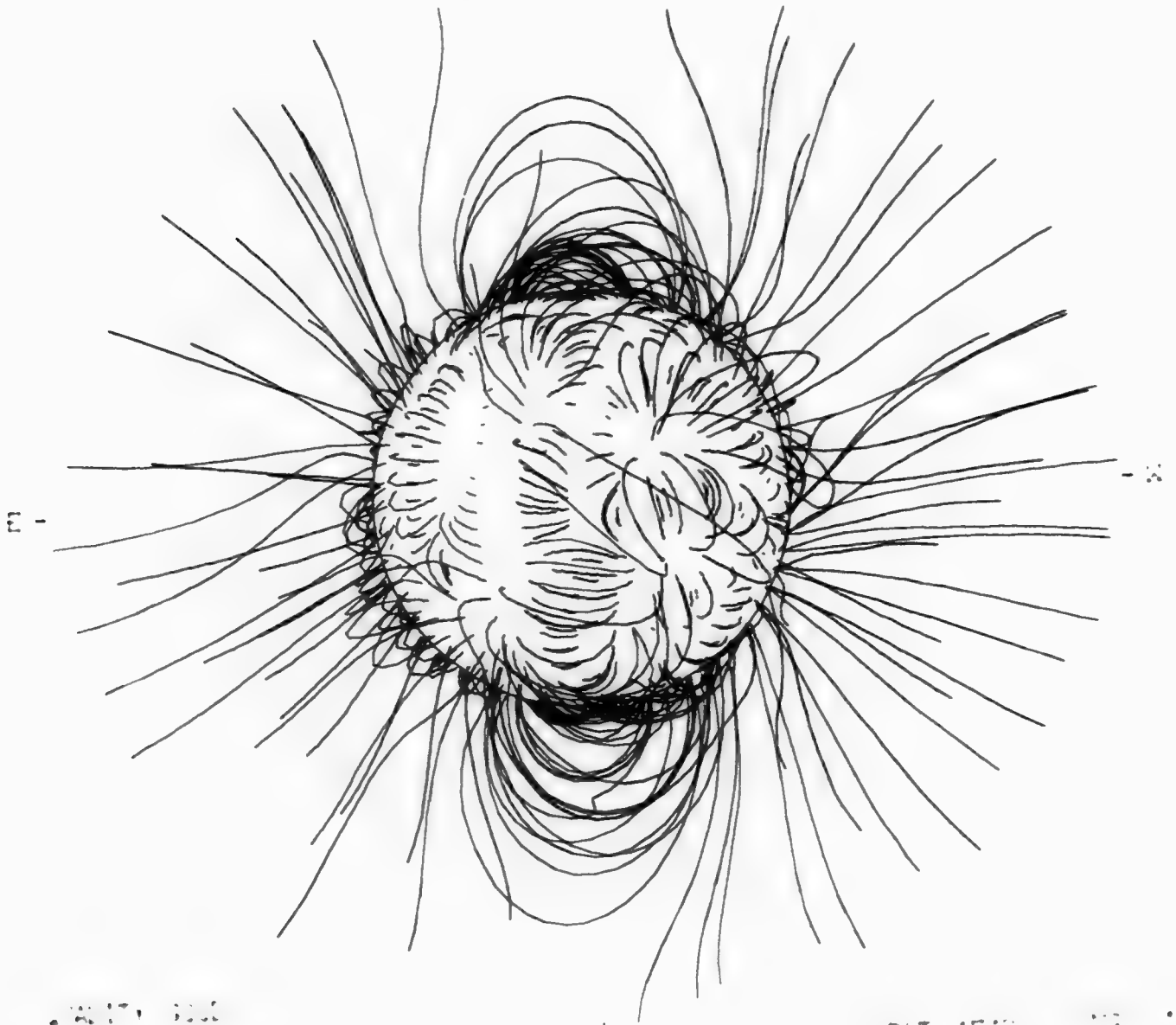
- W

S

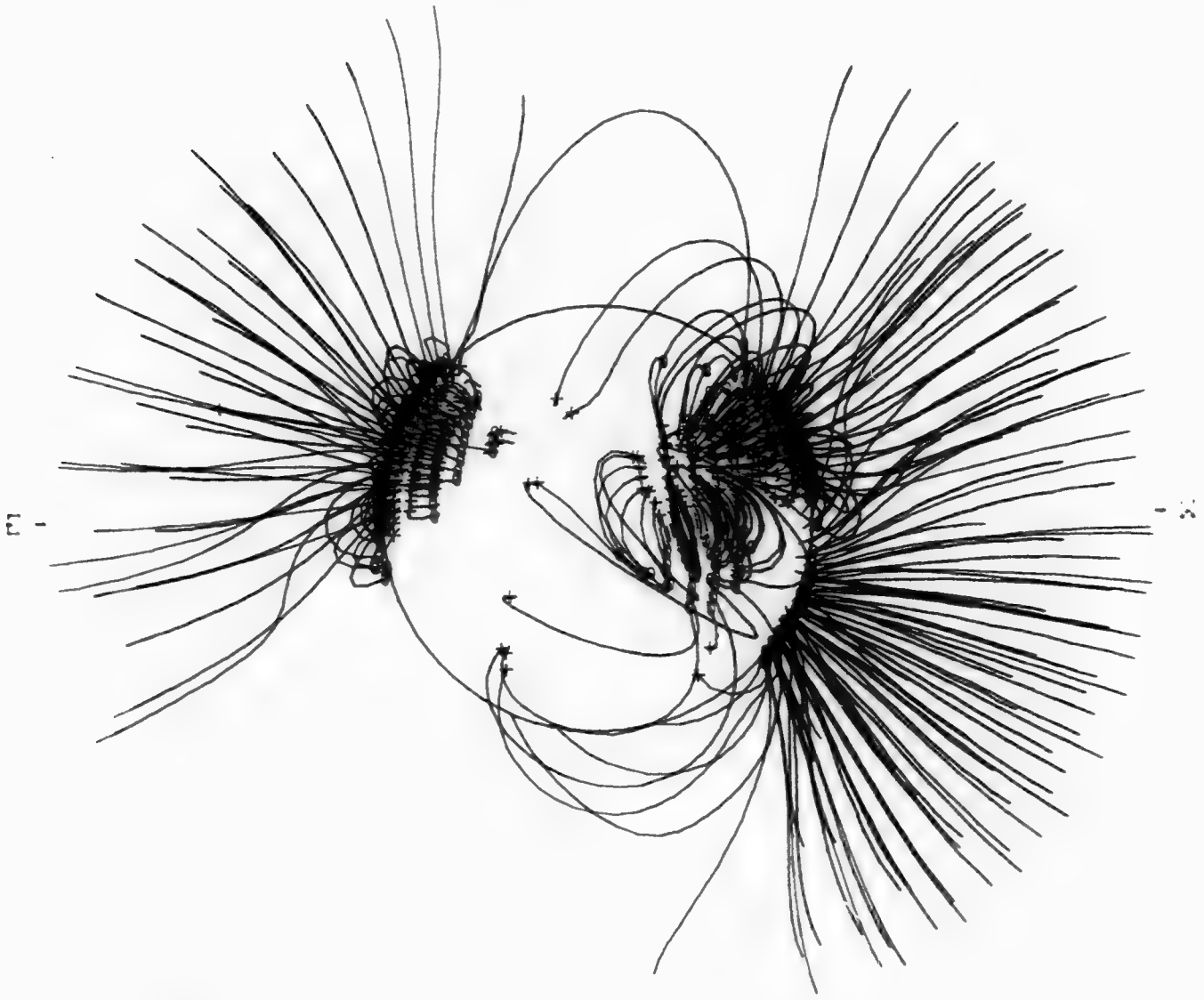
QUALITY GOOD

POLES DIRECT

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



[illegible]

POLES DIRECT

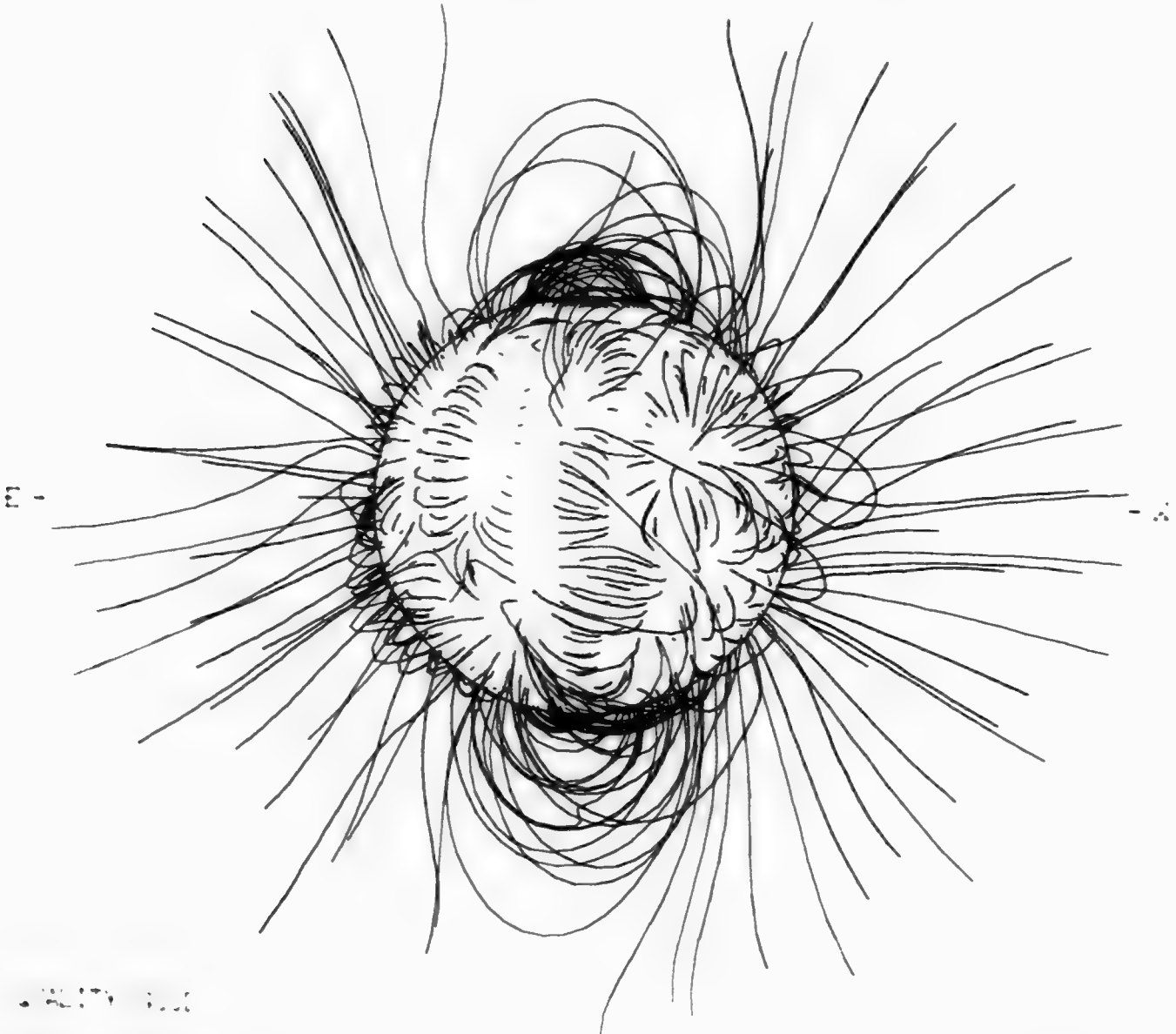
DATA [illegible] 1542.47

S

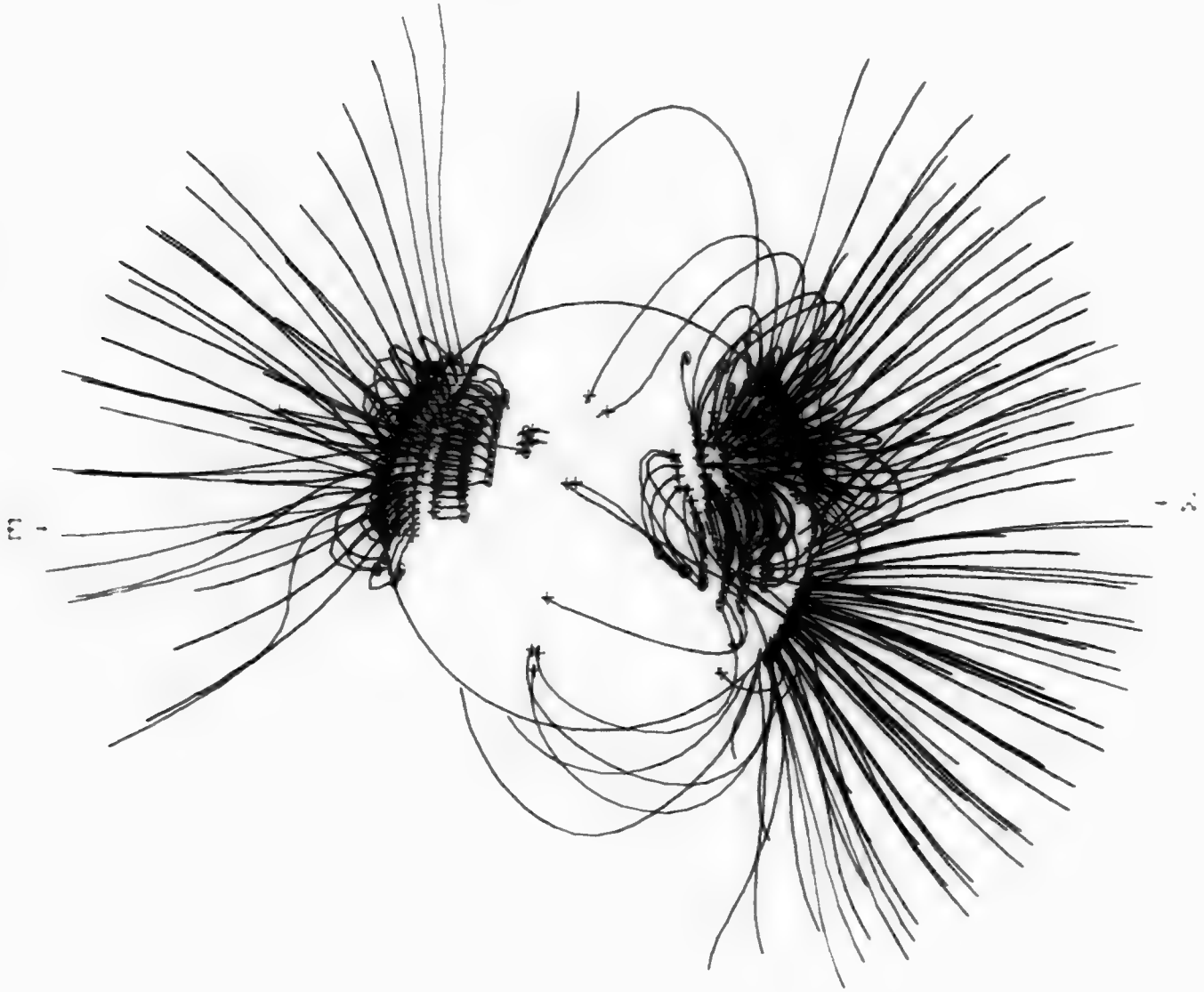
R.T. 1542 [illegible]

3.6 JAN 1969

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

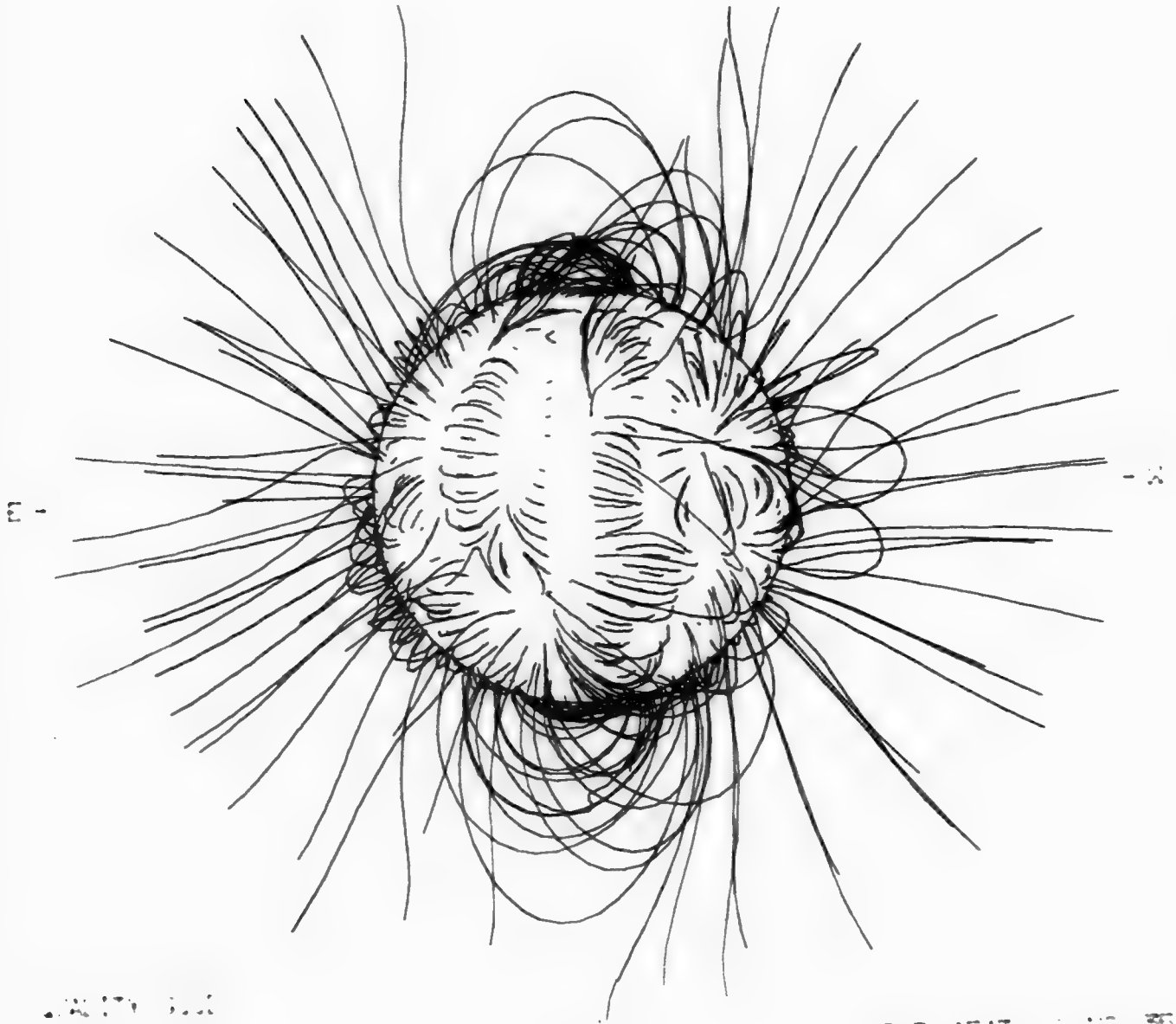


HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

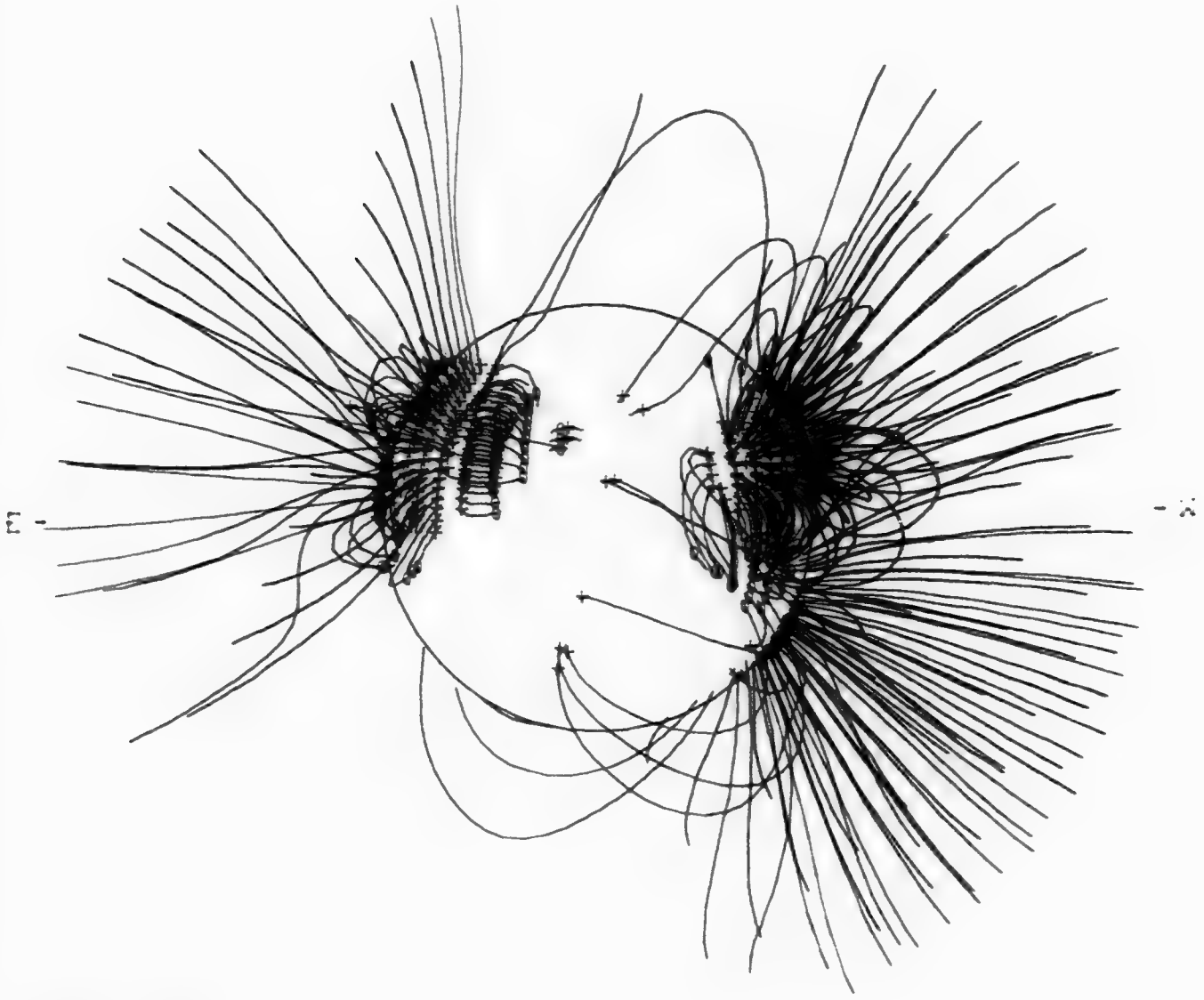


[illegible]

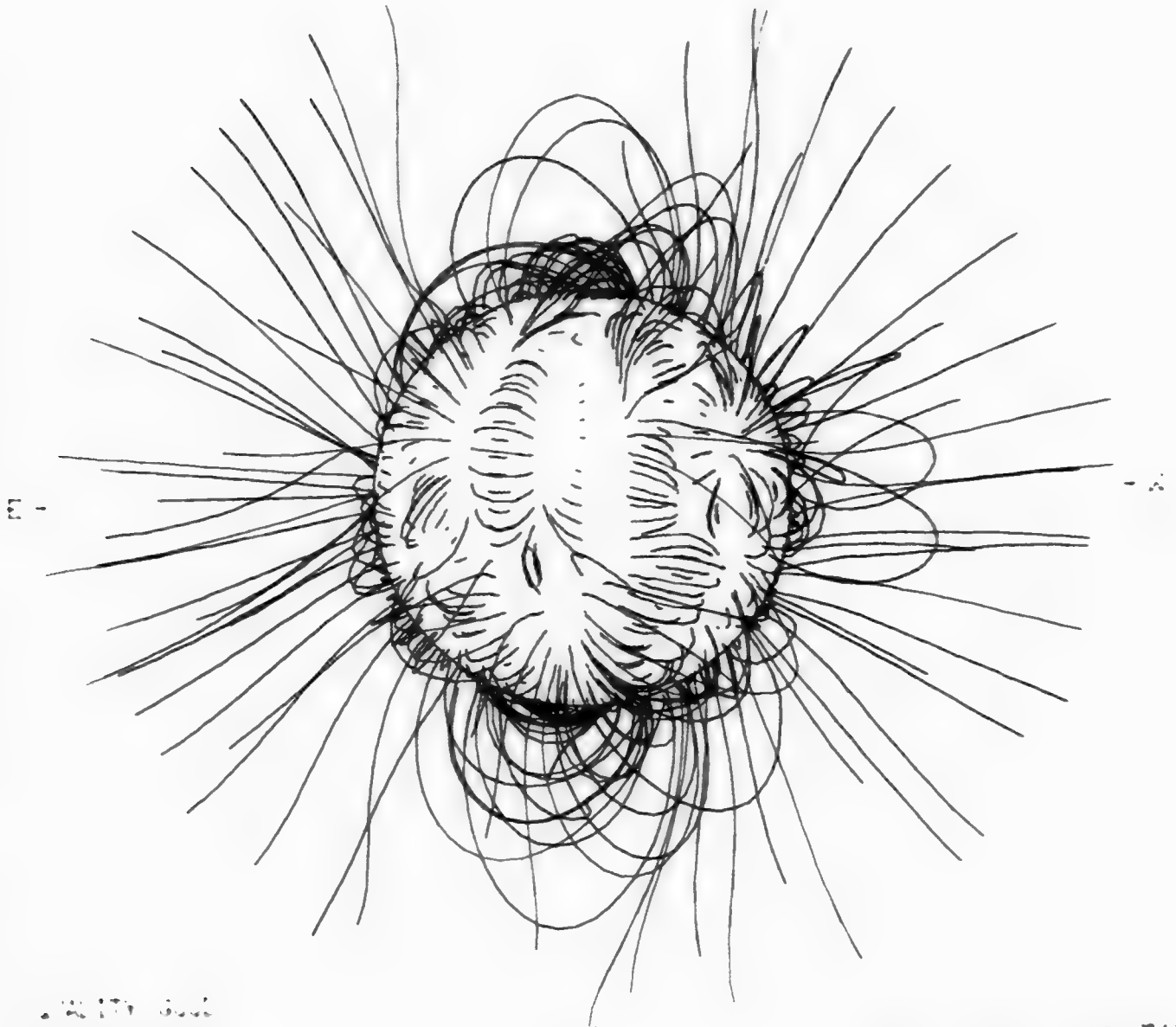
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



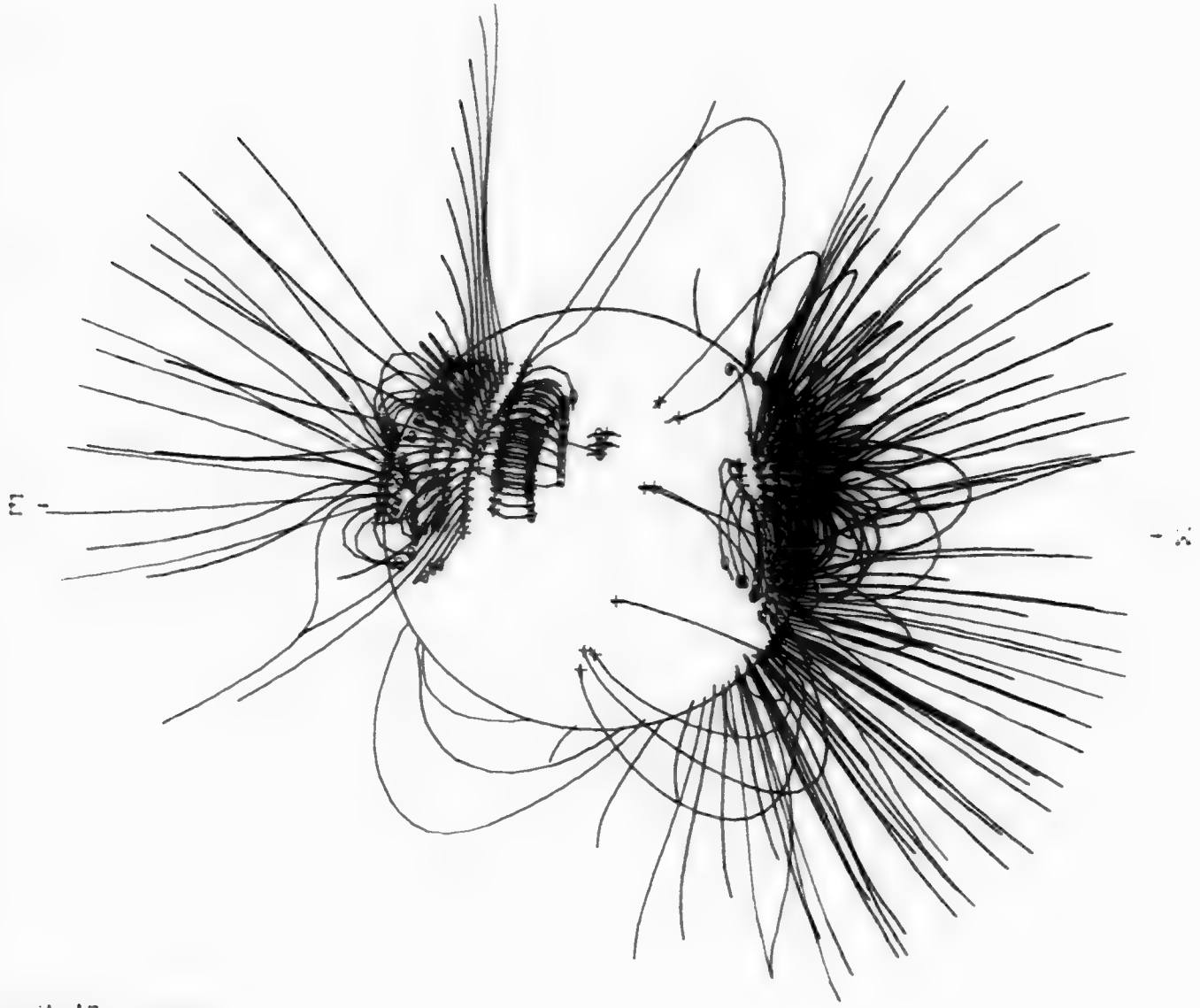
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



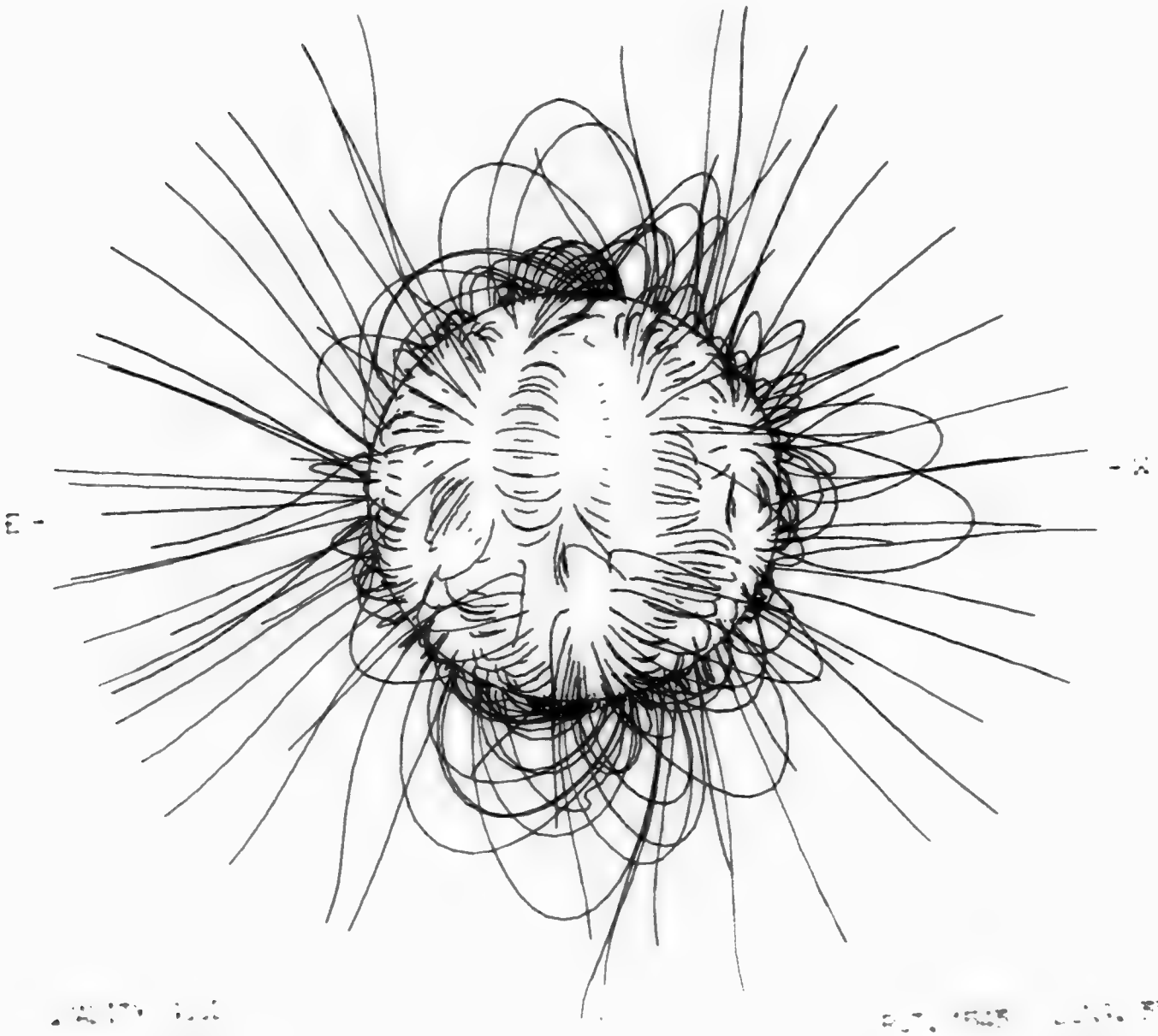
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



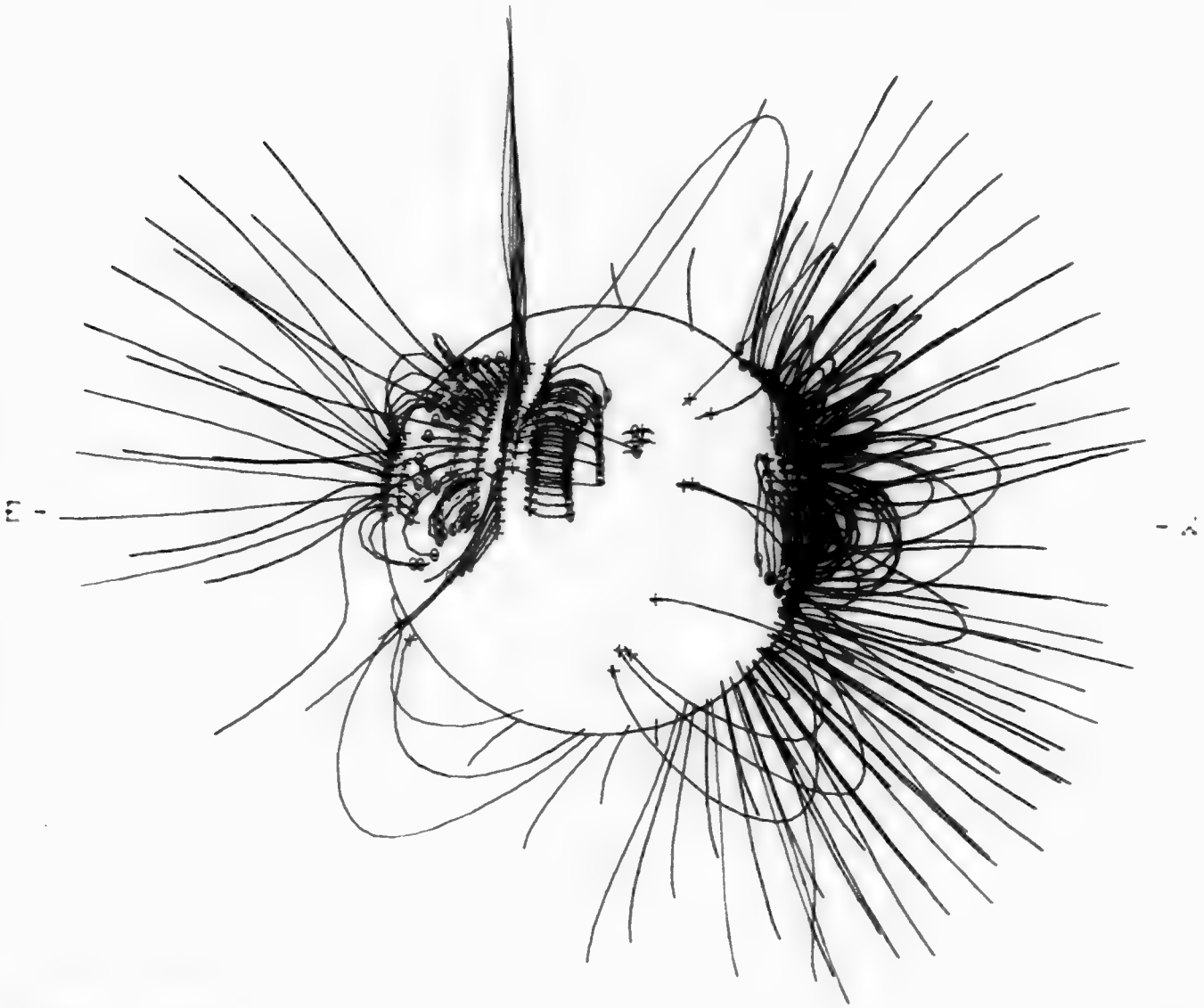
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



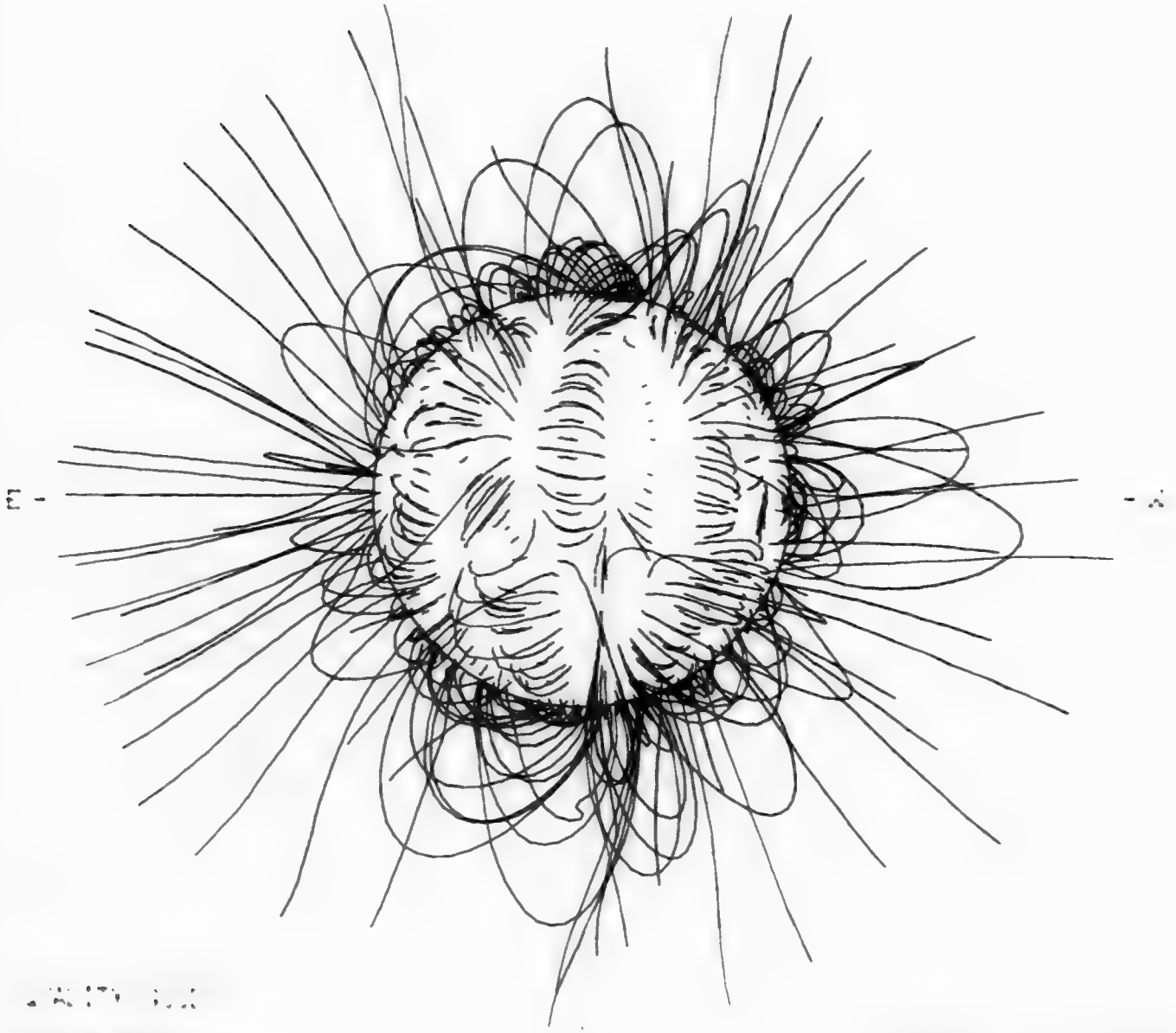
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



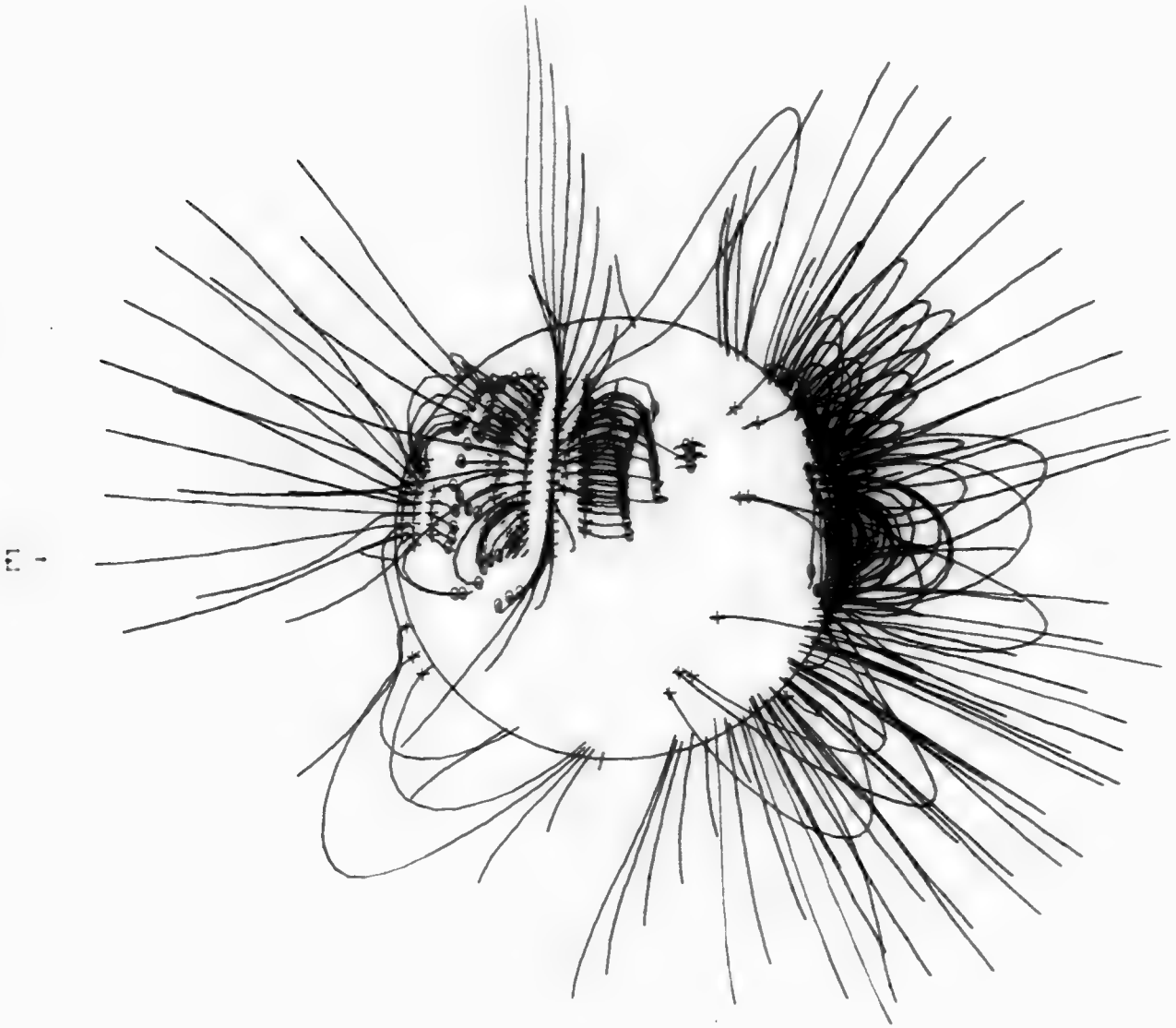
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



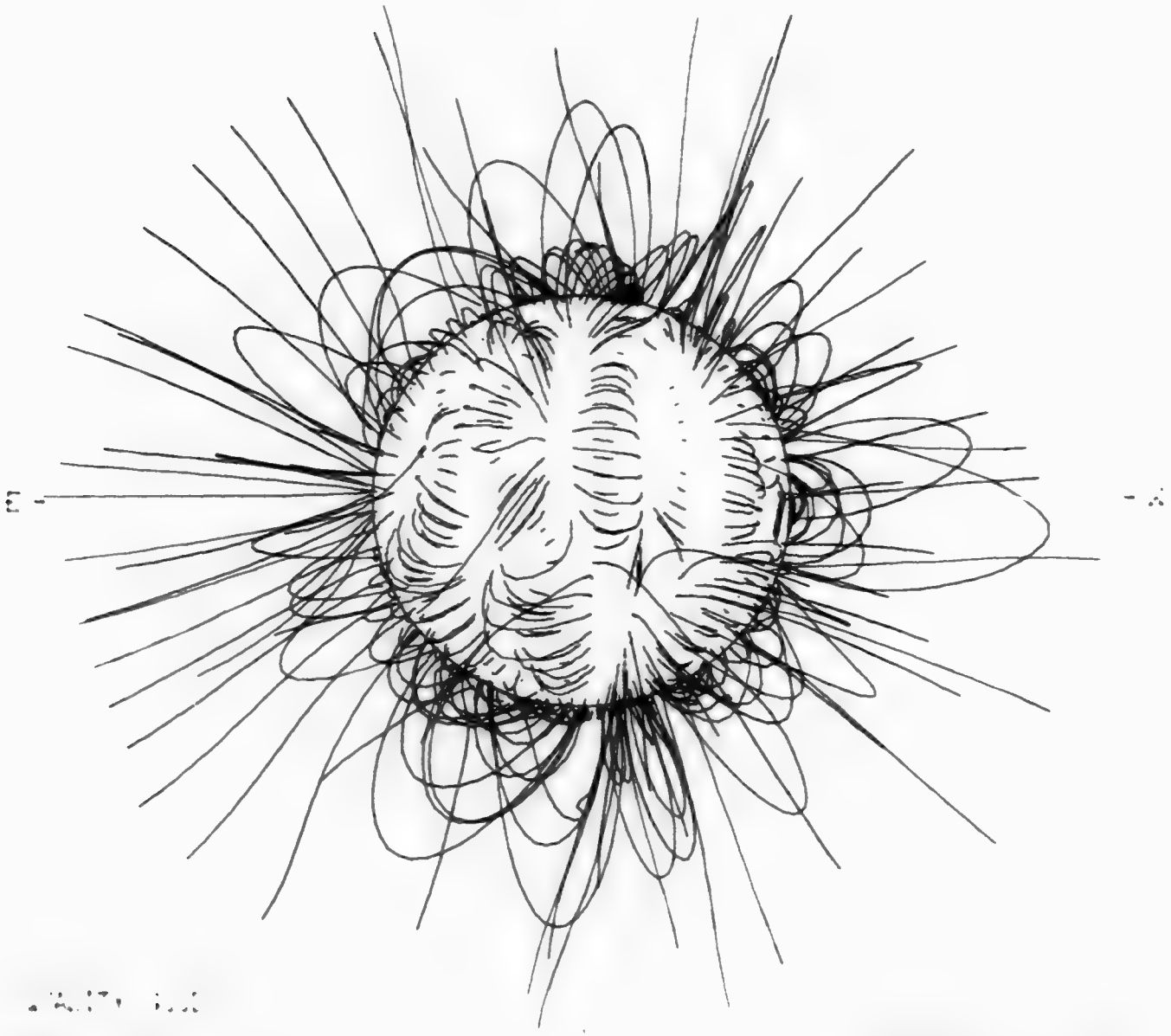
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



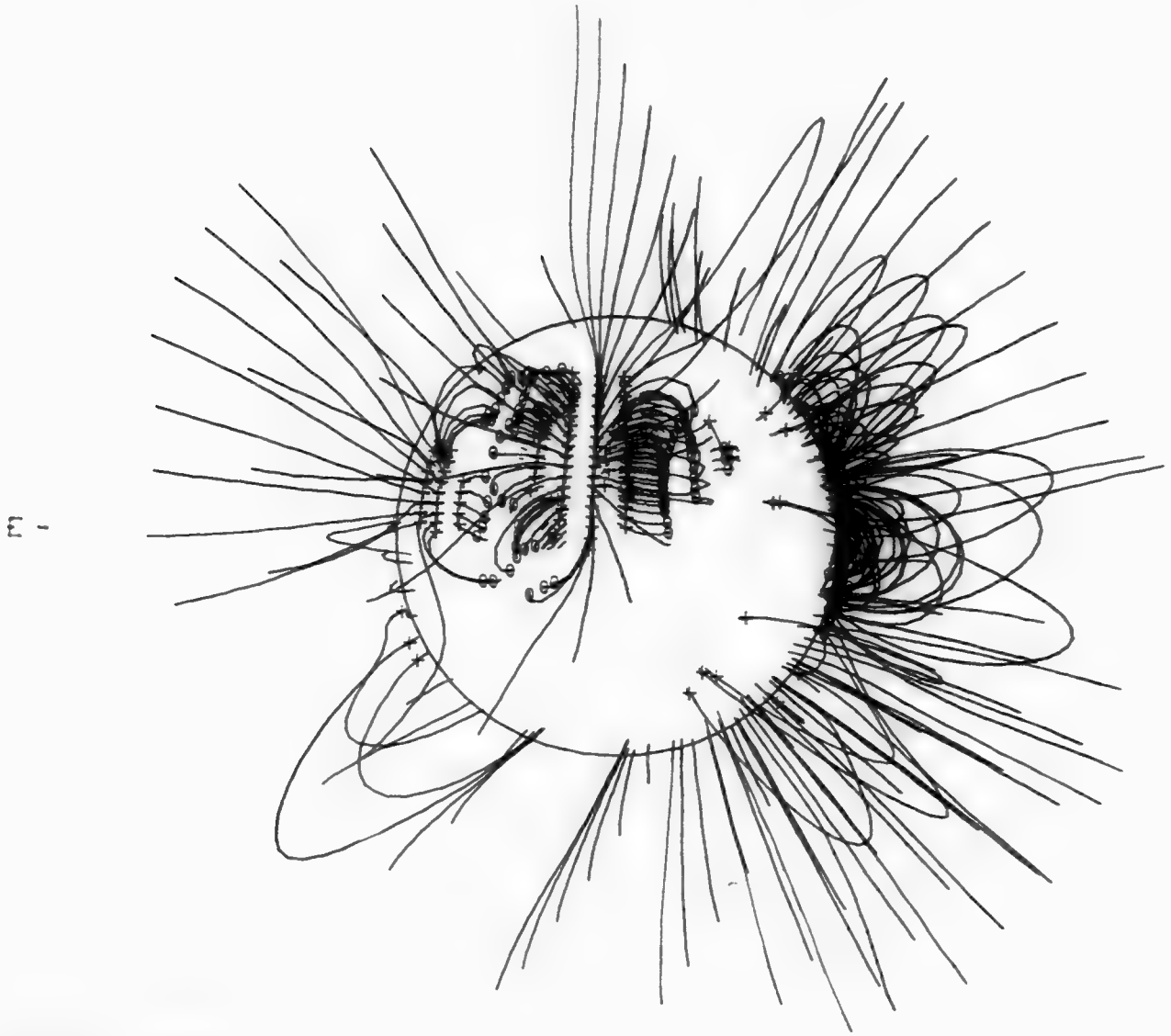
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



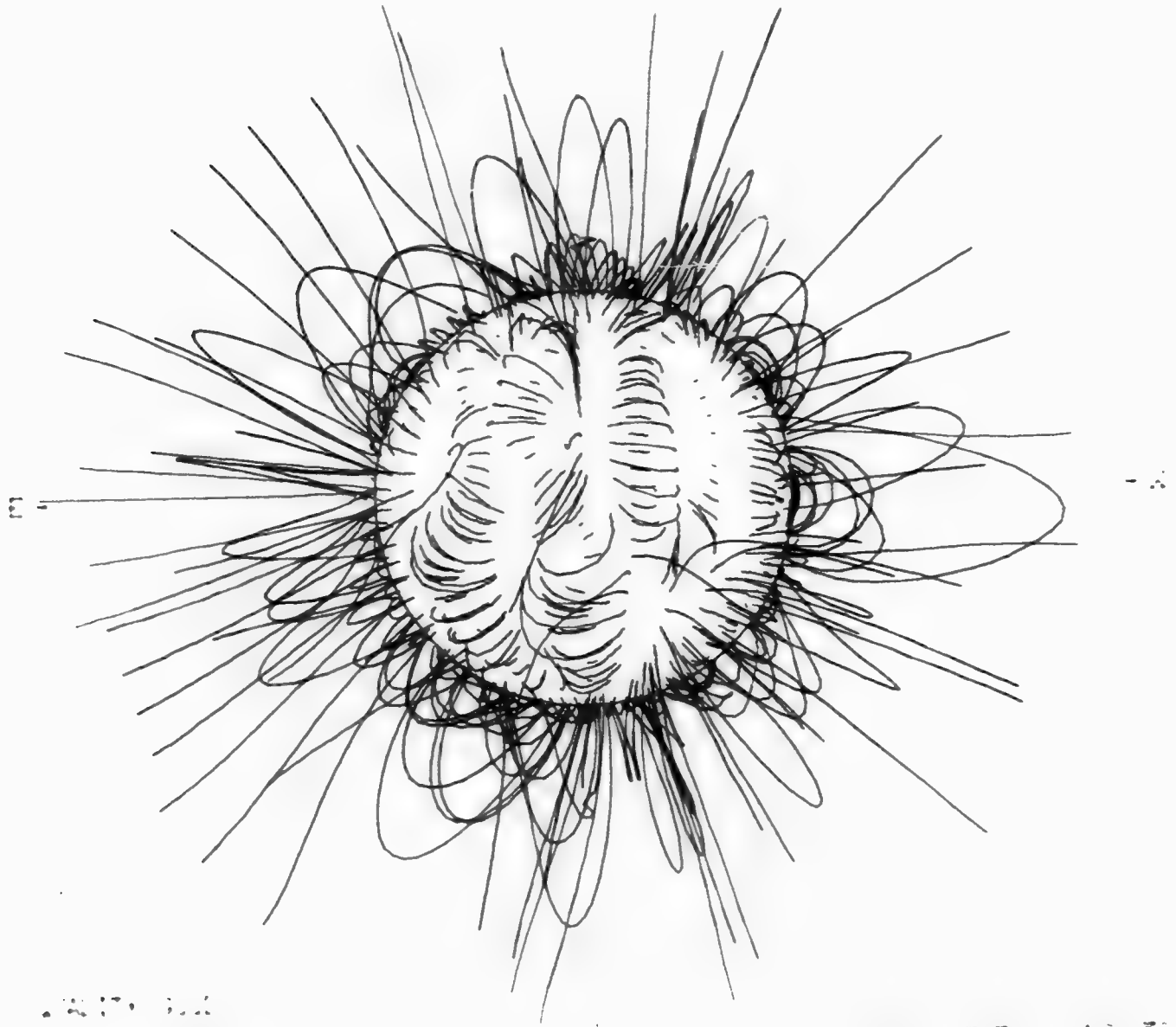
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



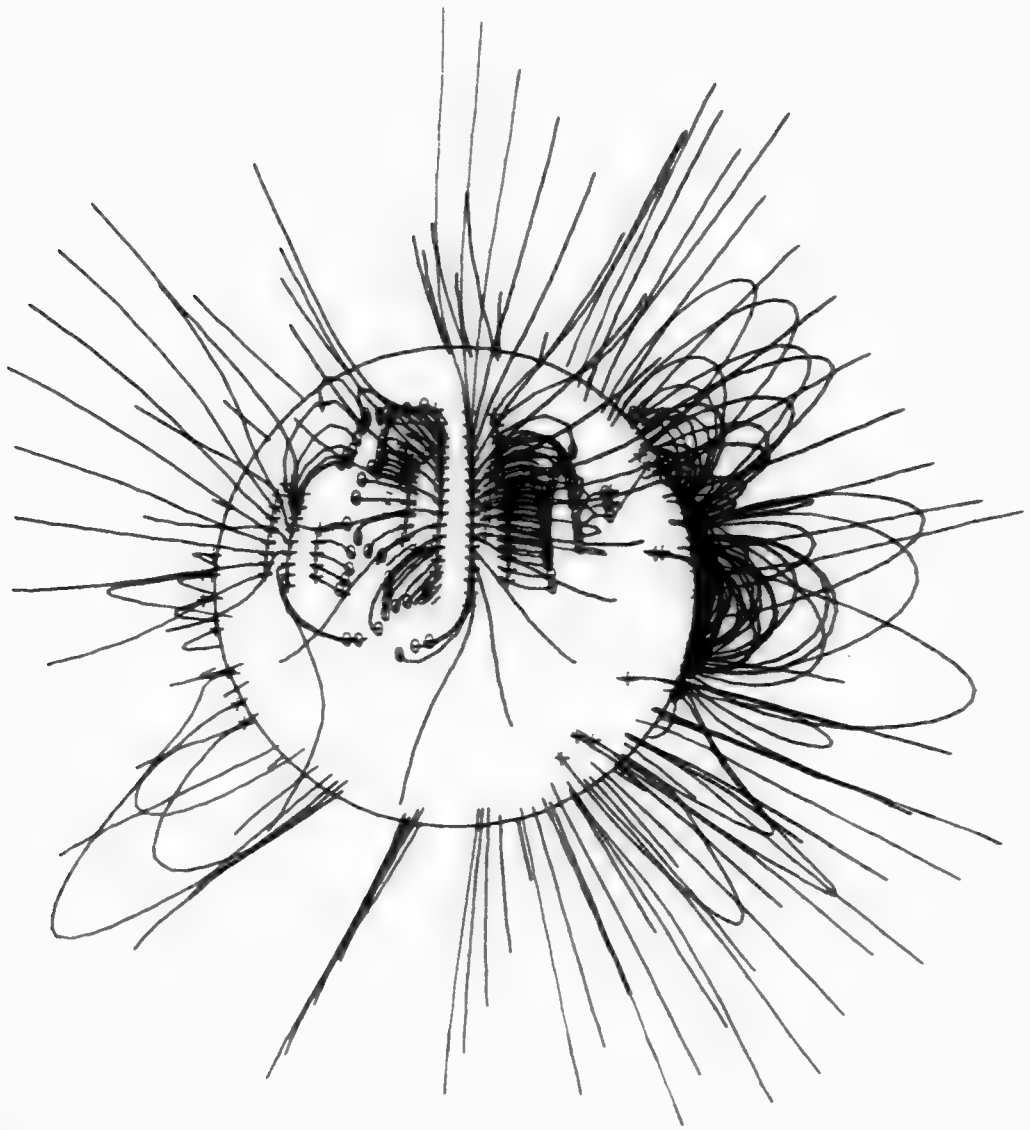
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



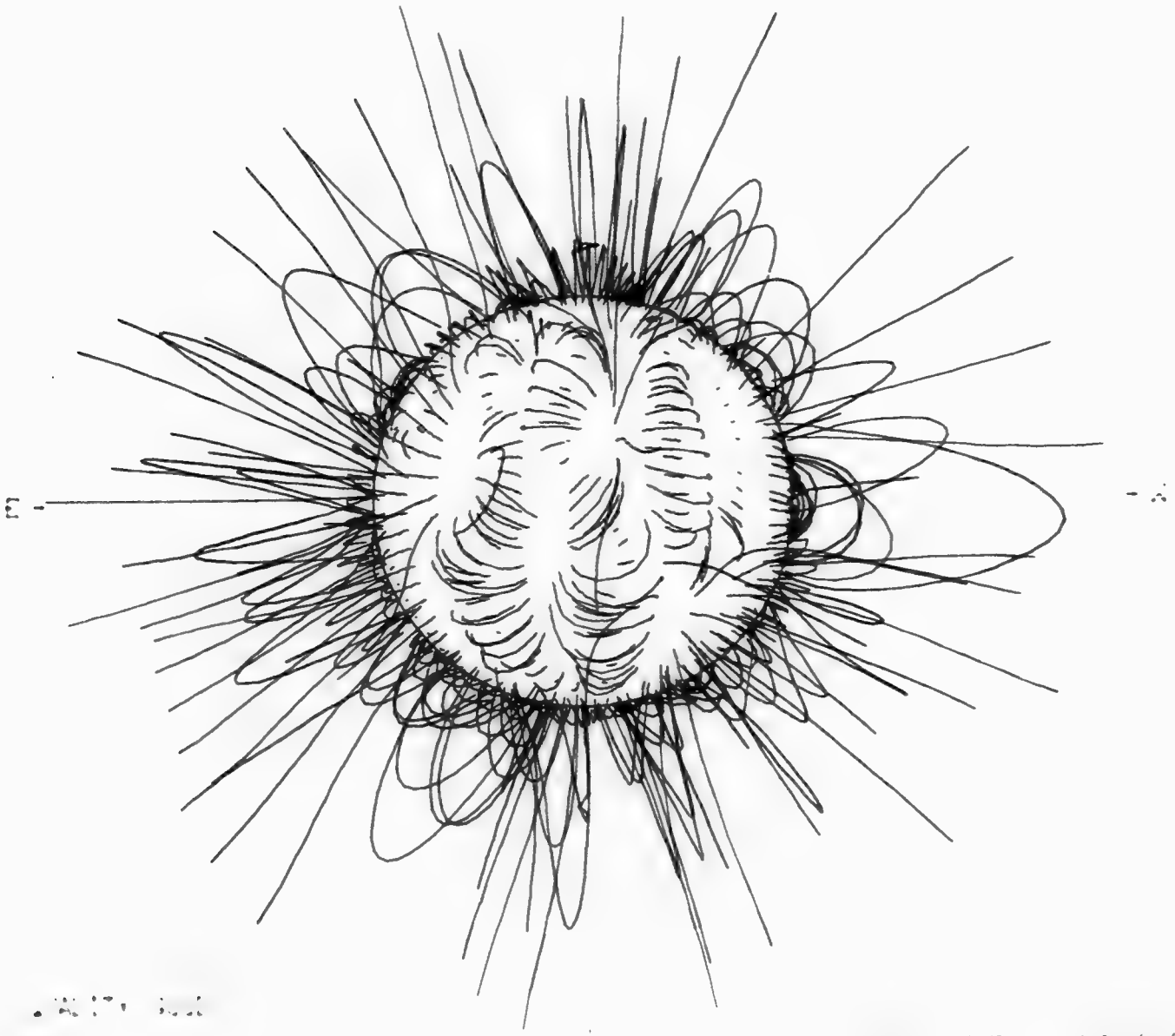
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



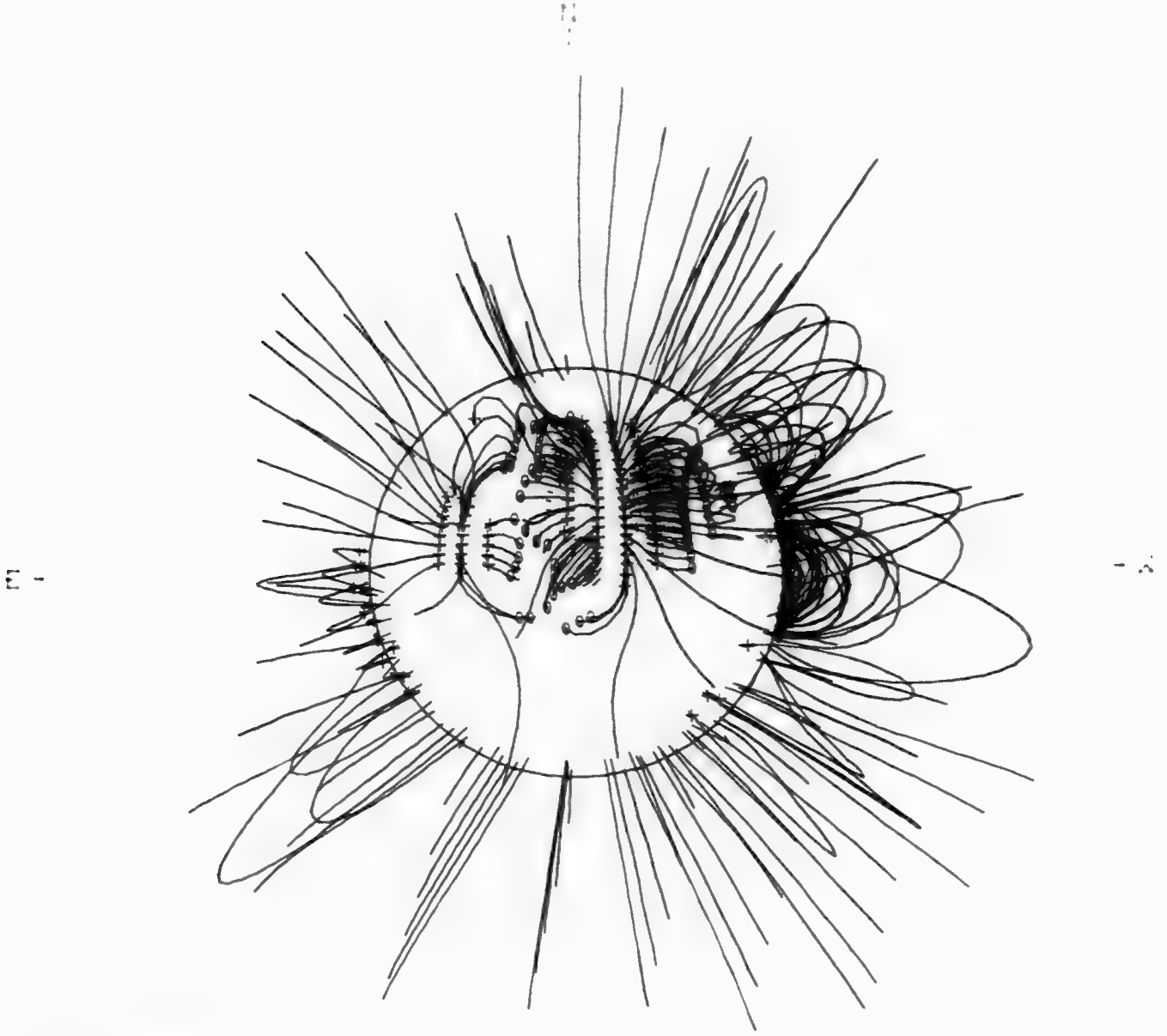
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



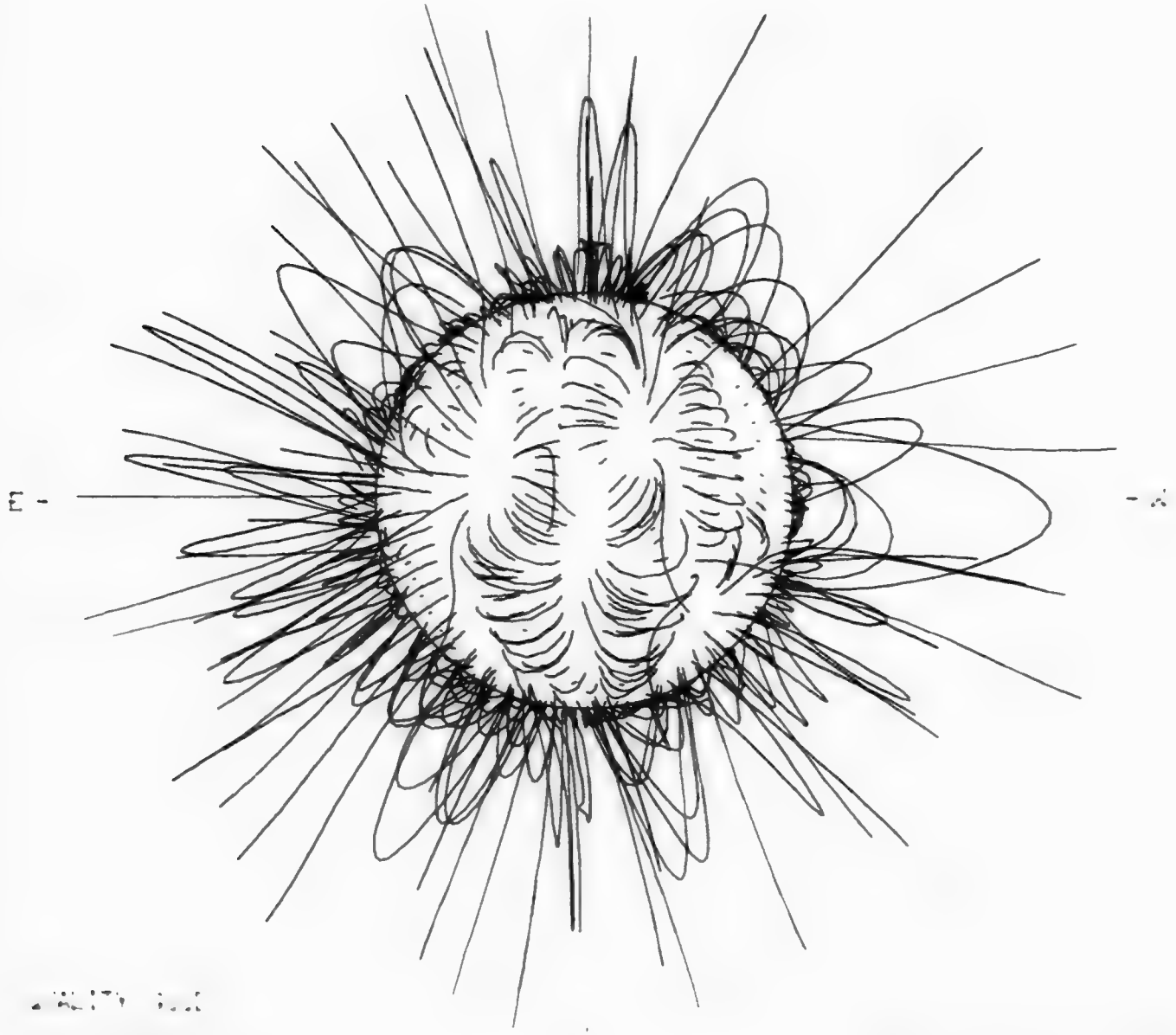
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



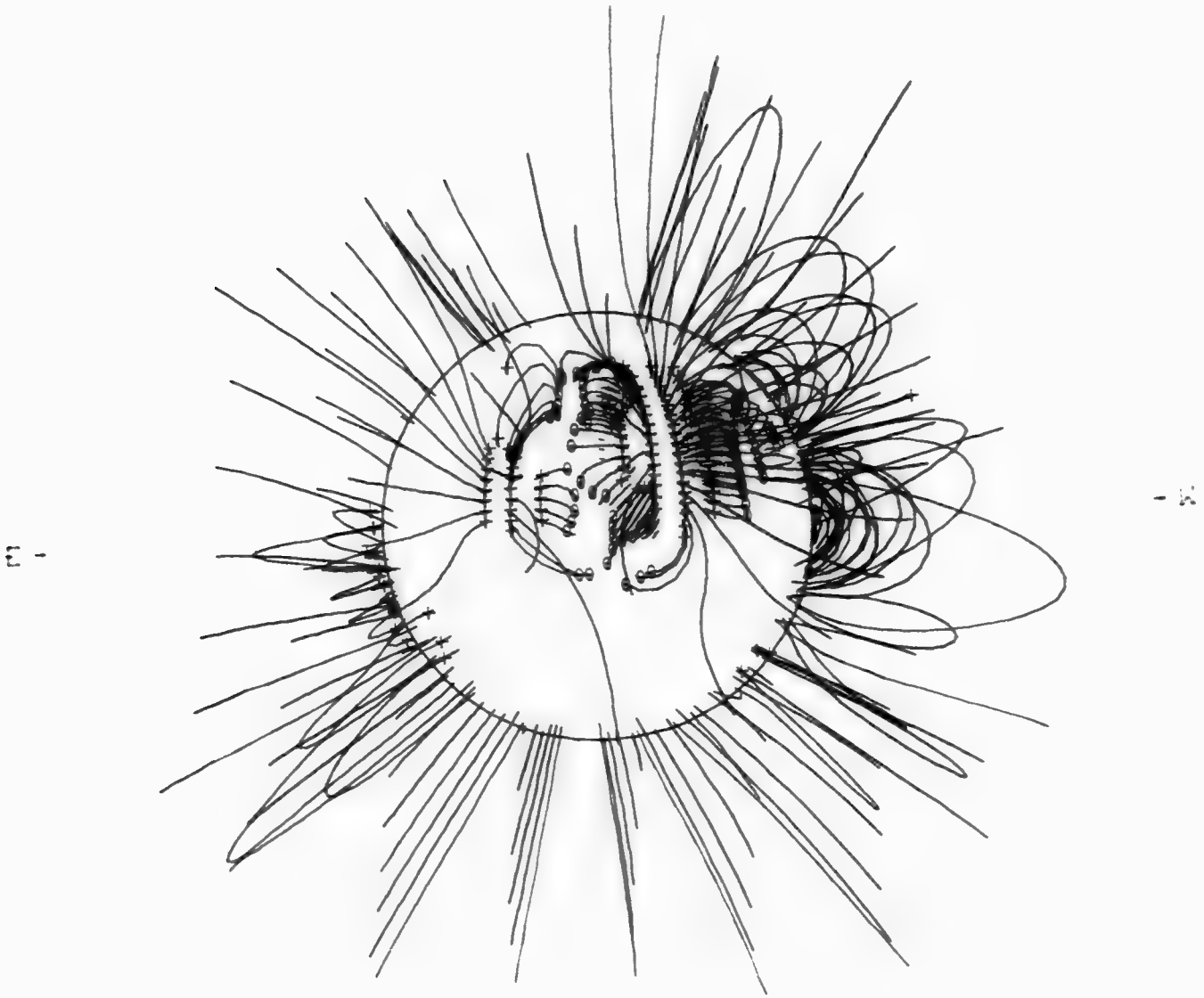
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



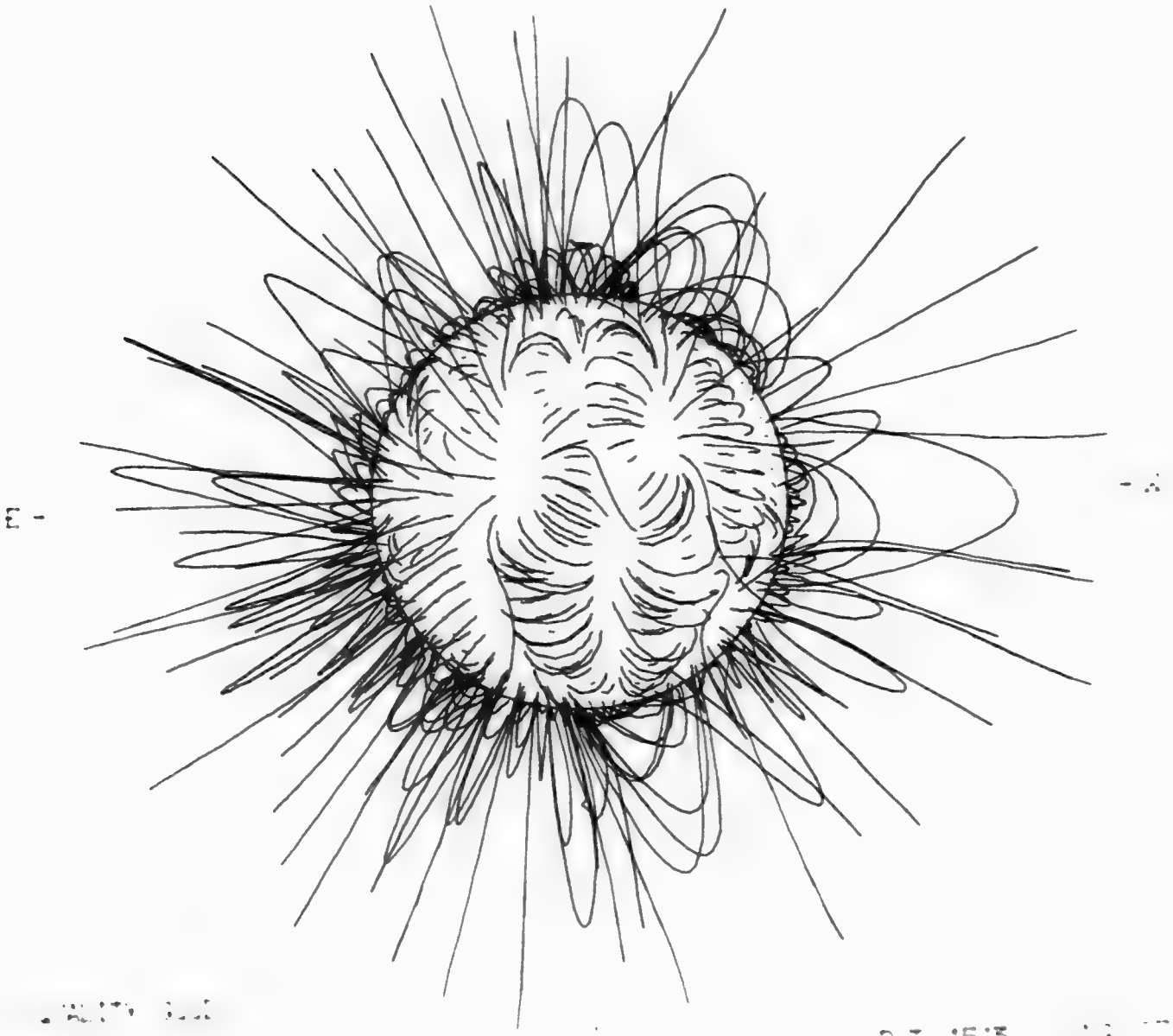
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



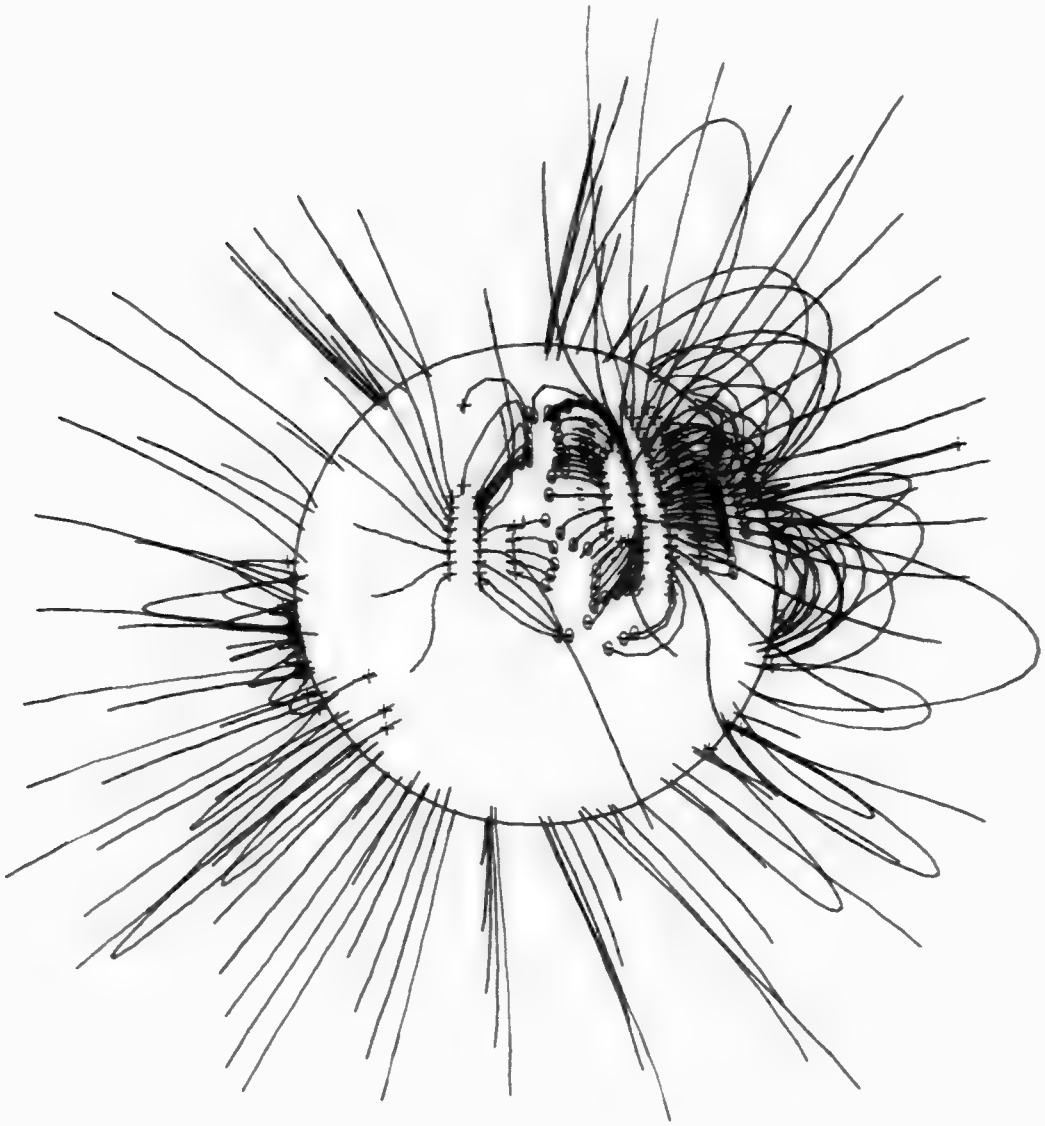
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



E -

- A

• ALITY GOOD

POLES DIRECT

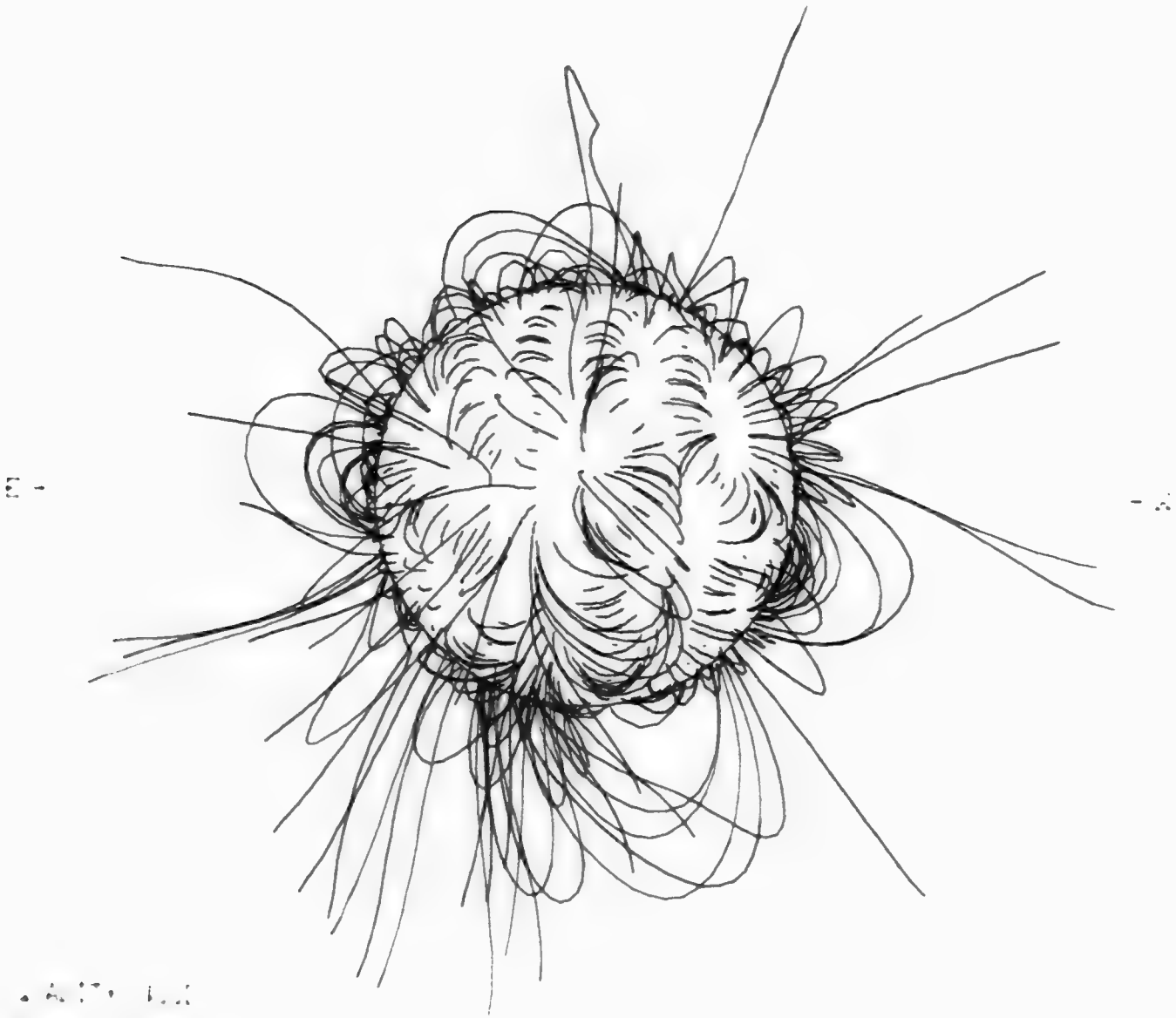
DATA WINDOW "542.4"

S

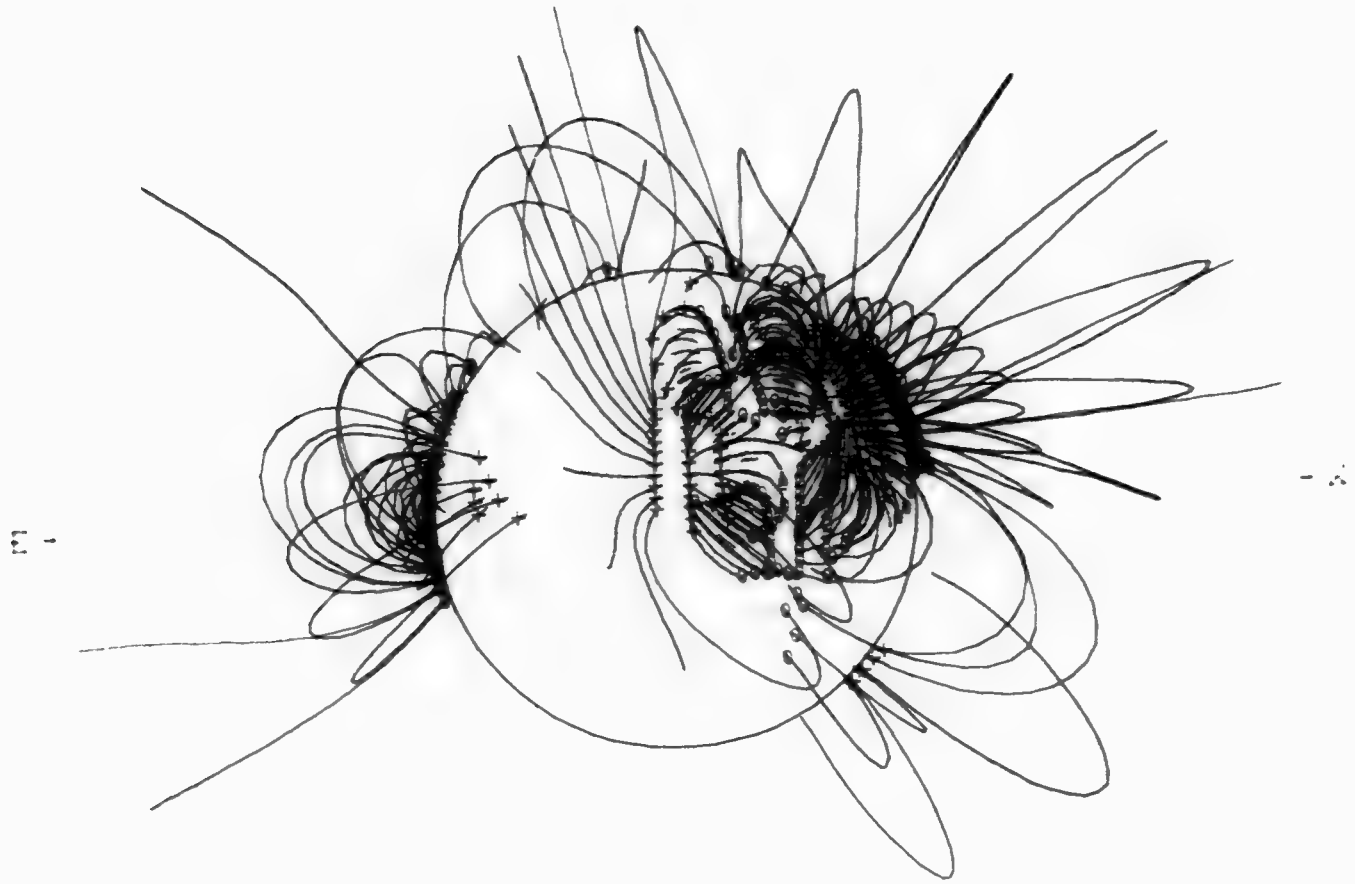
E.T. "543 [illegible]

[illegible]

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

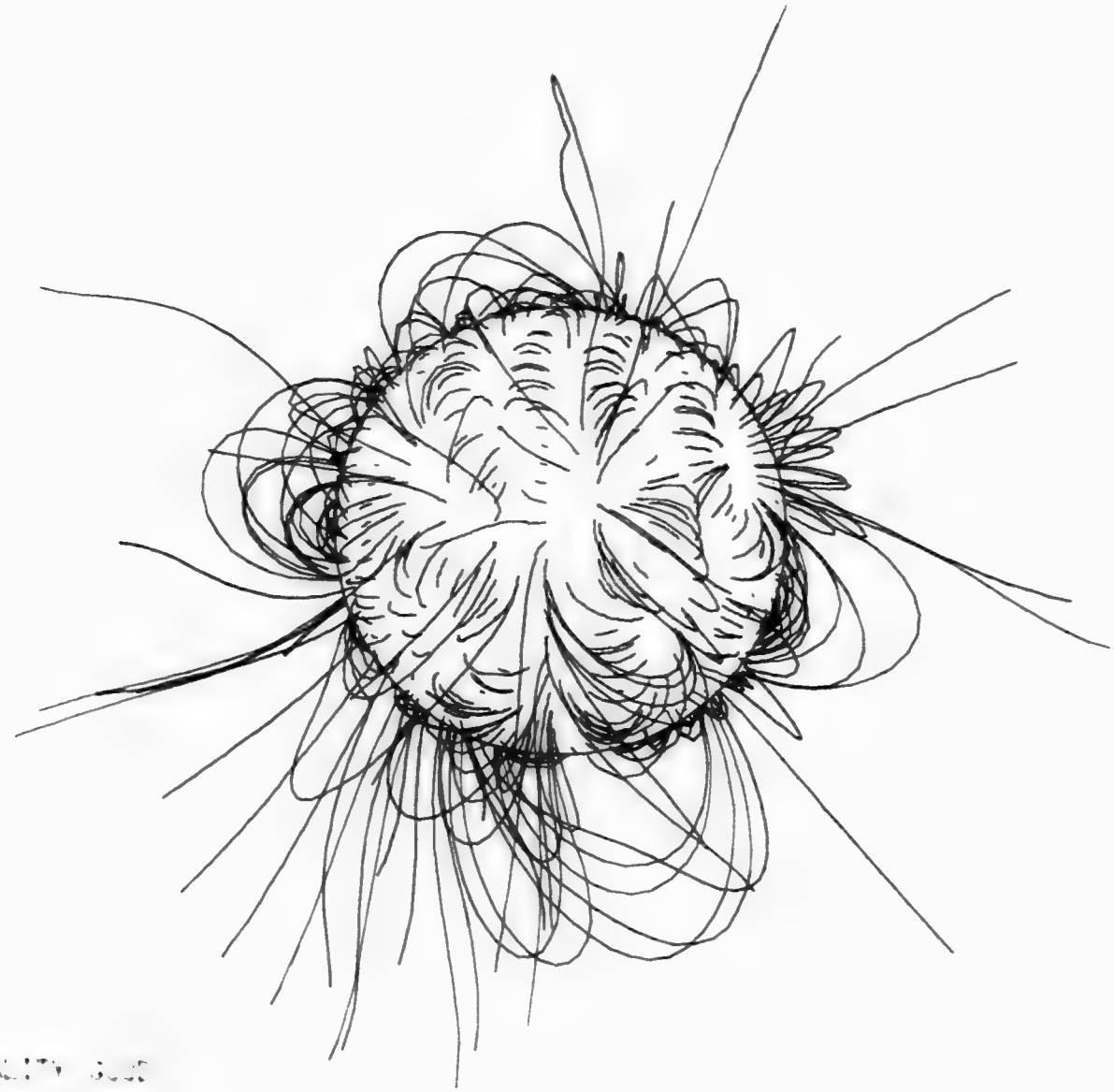


HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



S

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



QUALITY GOOD

RULES DIRECT

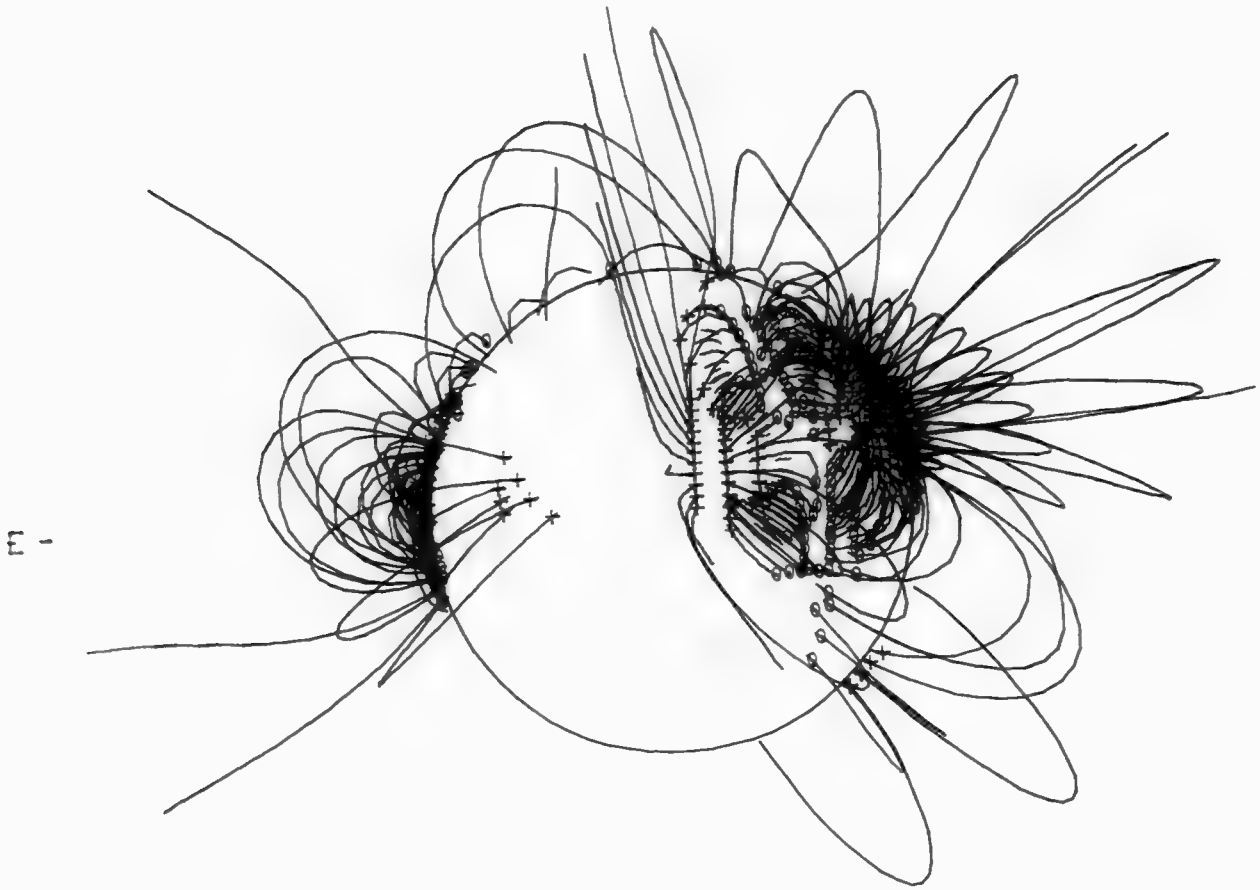
DATA WINDOW 1543.00

R.T. 1543 [illegible]°

12.7 [illegible]

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N



E -

- W

S

QUALITY GOOD

POLES DIRECT

DATA MINUS 1543.00

R.T. 1543 LONG. 251°

12.7 JAN 1965

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

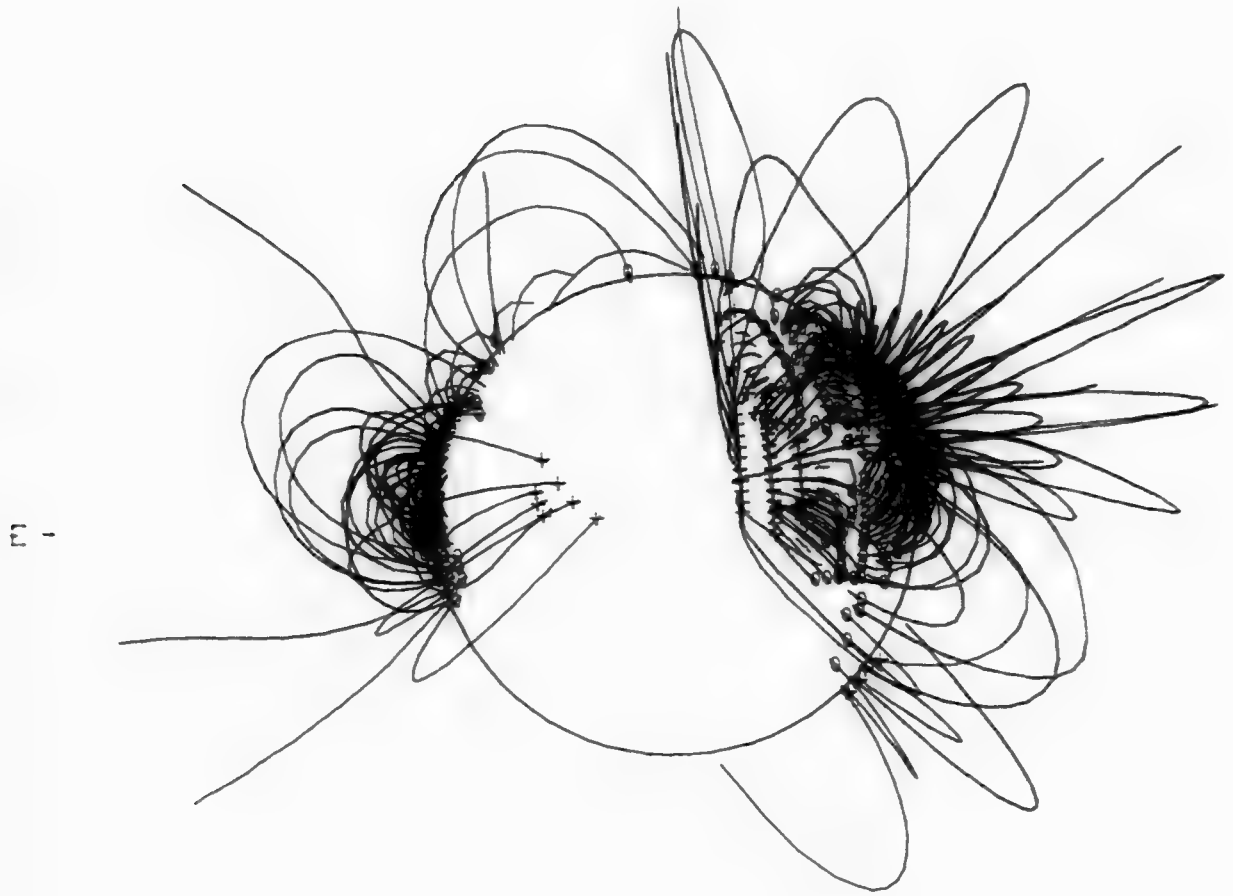
POLES DIRECT

DATA AS OF JAN 1543.00

ROT. 1543

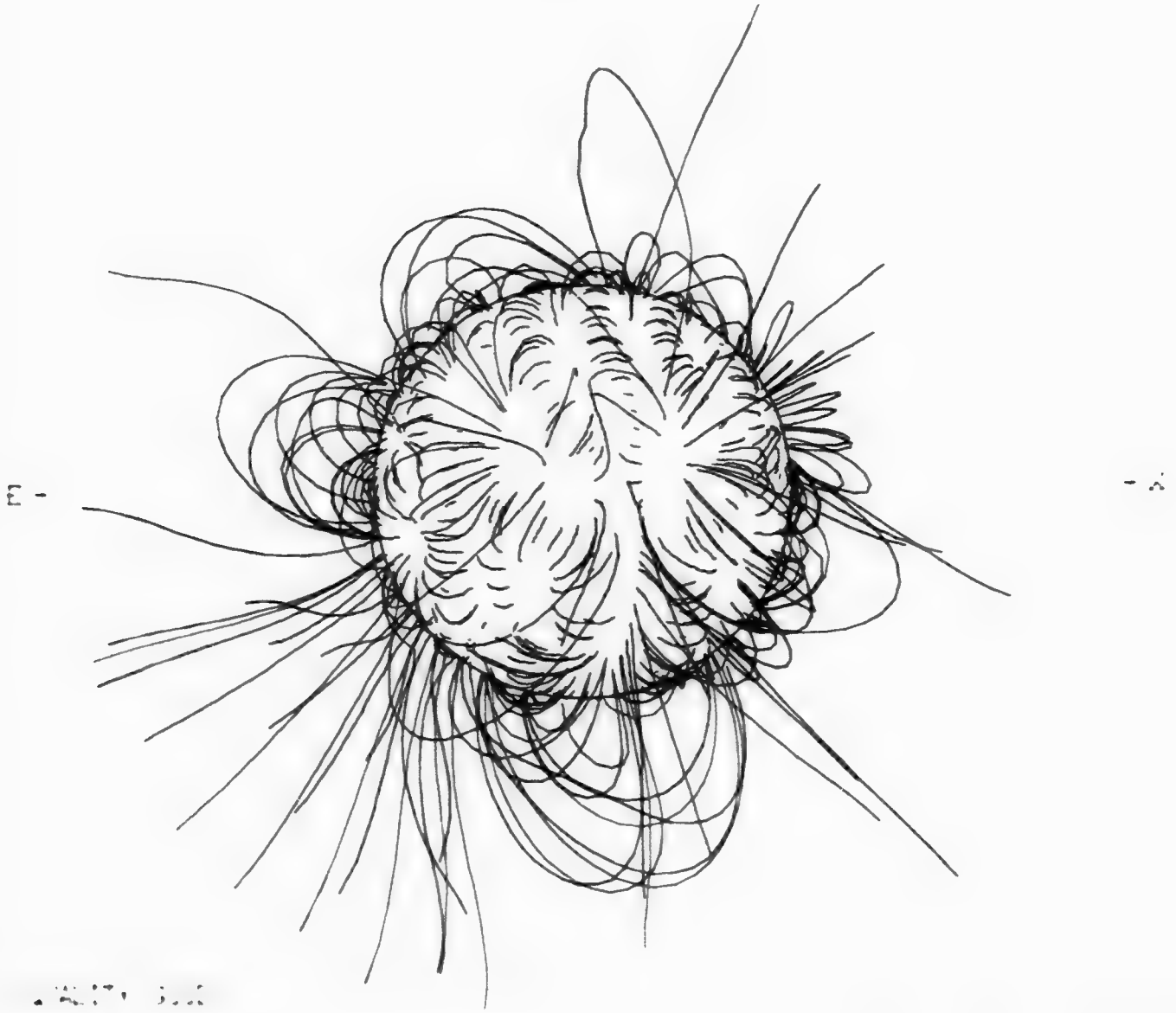
13.5 JAN 1964

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



[illegible]

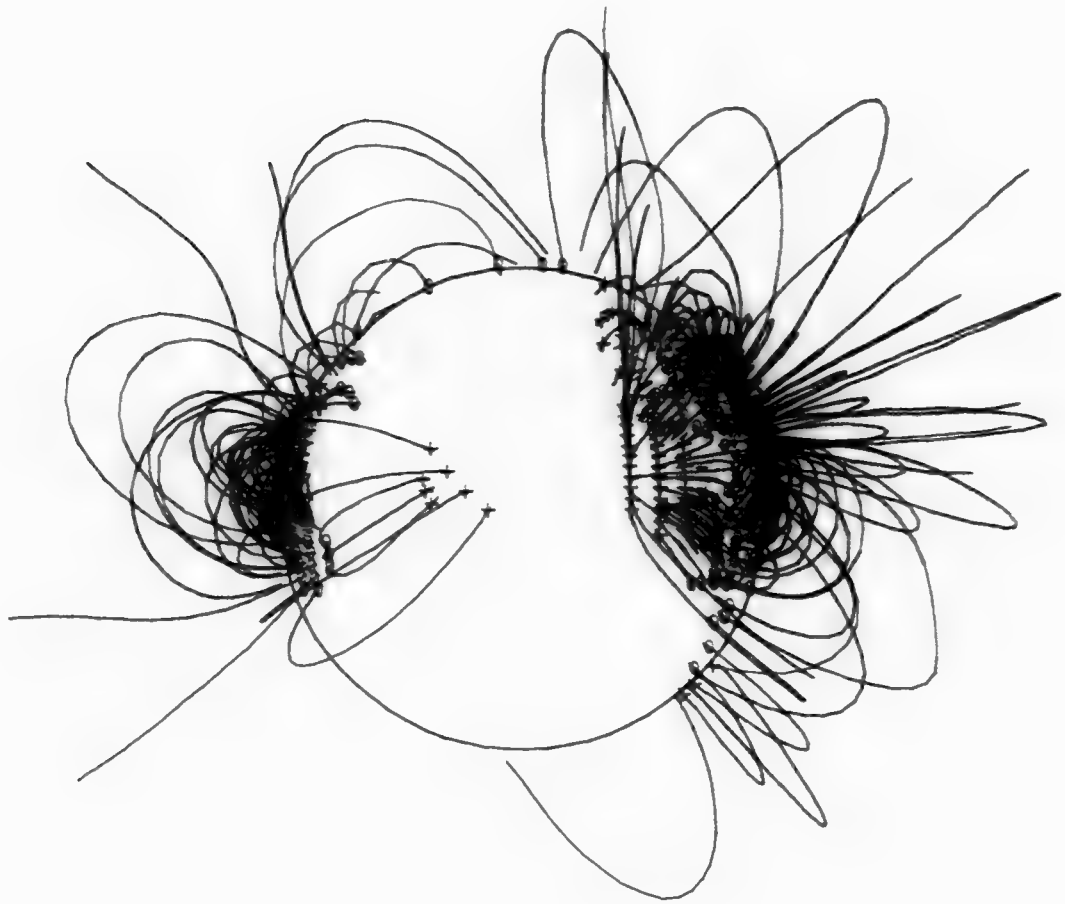
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



ROT. 1543 LONG. 25°

14.2 JAN 1969

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



PILES DIRECT

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N

E -

- W

S

QUALITY GOOD

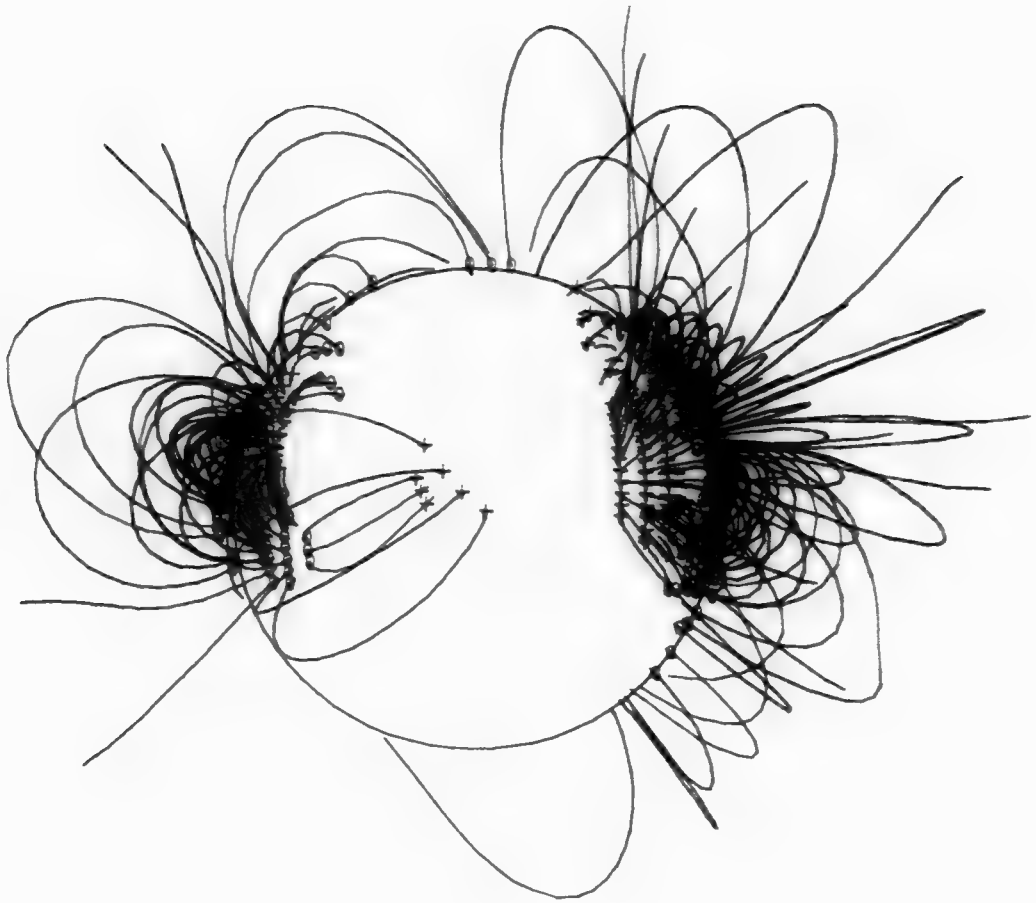
POLES DIRECT

DATA WINDOW 1543.00

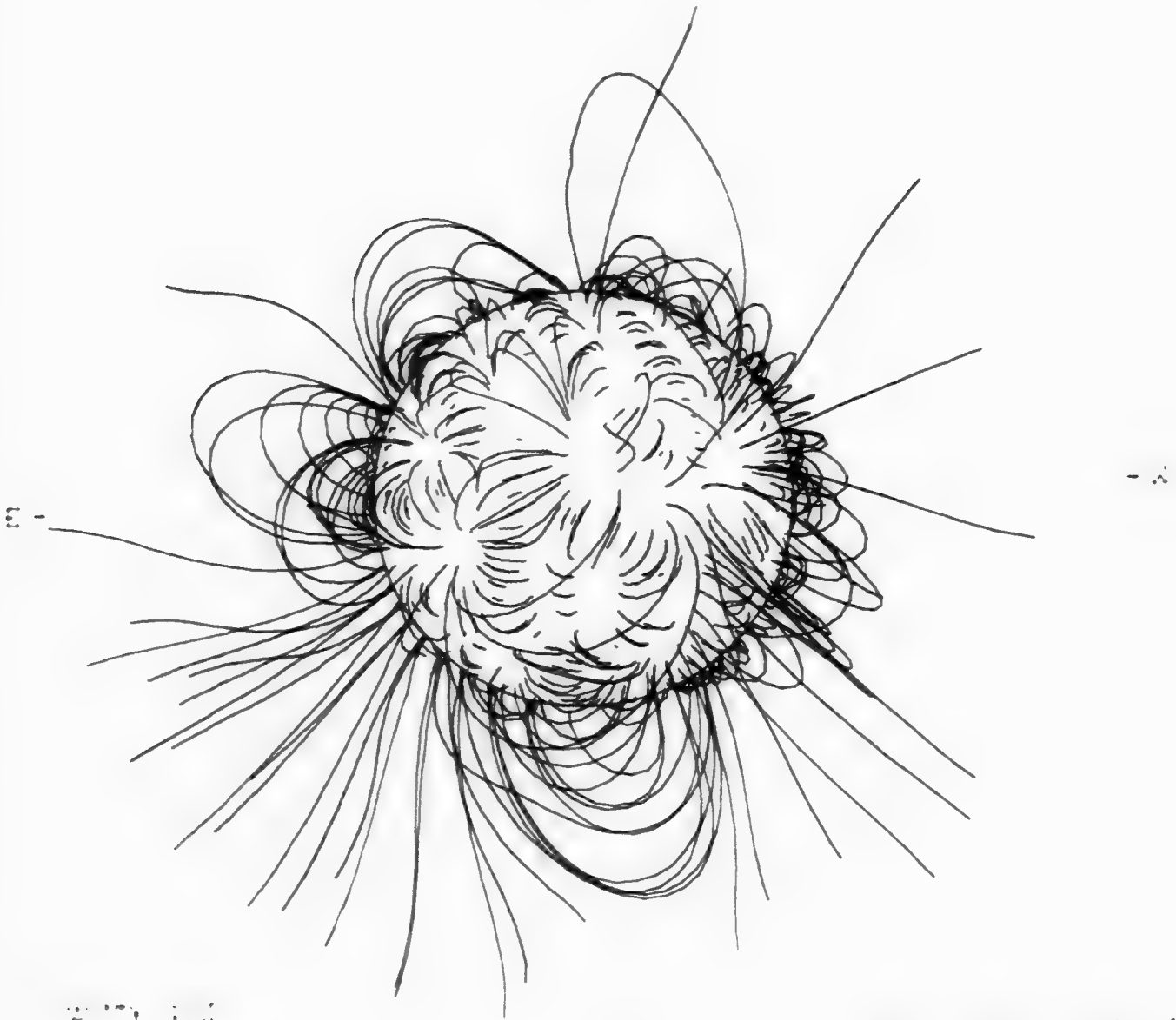
ROT. 1543 LONG. 220°

15.0 GAU 1969

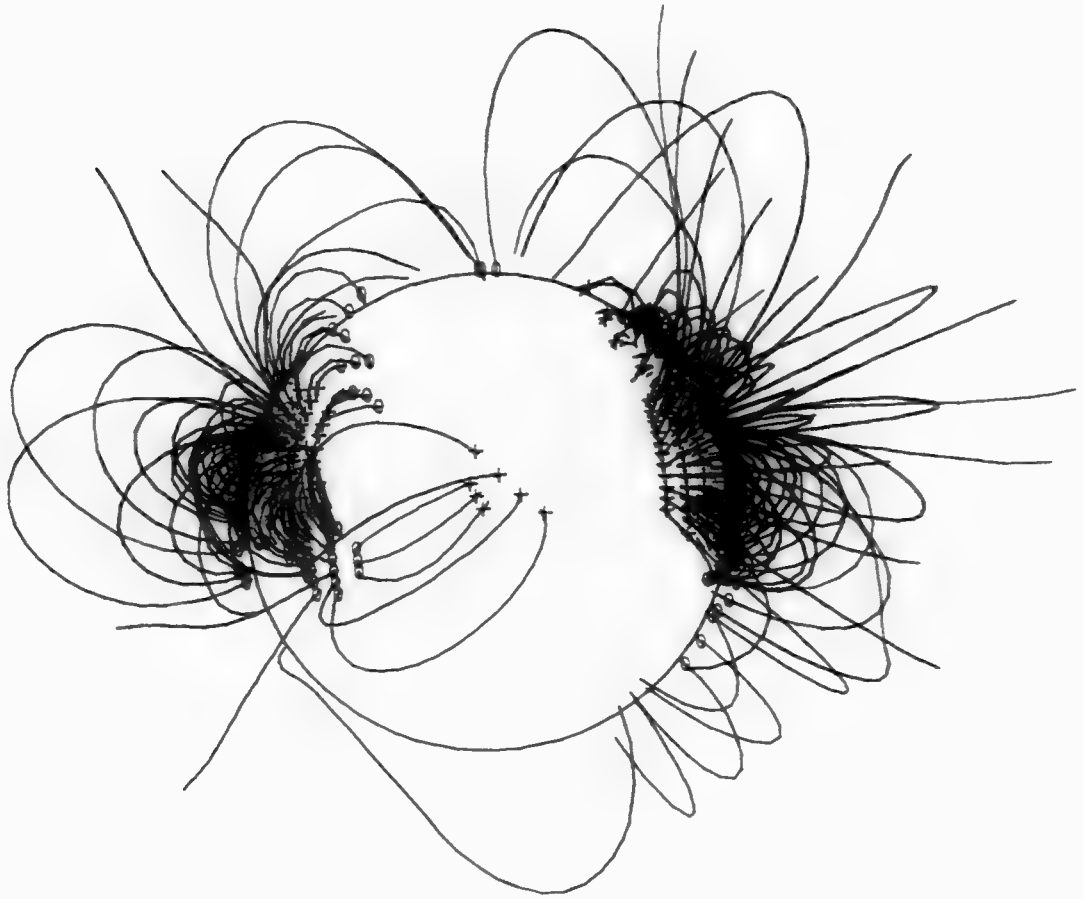
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

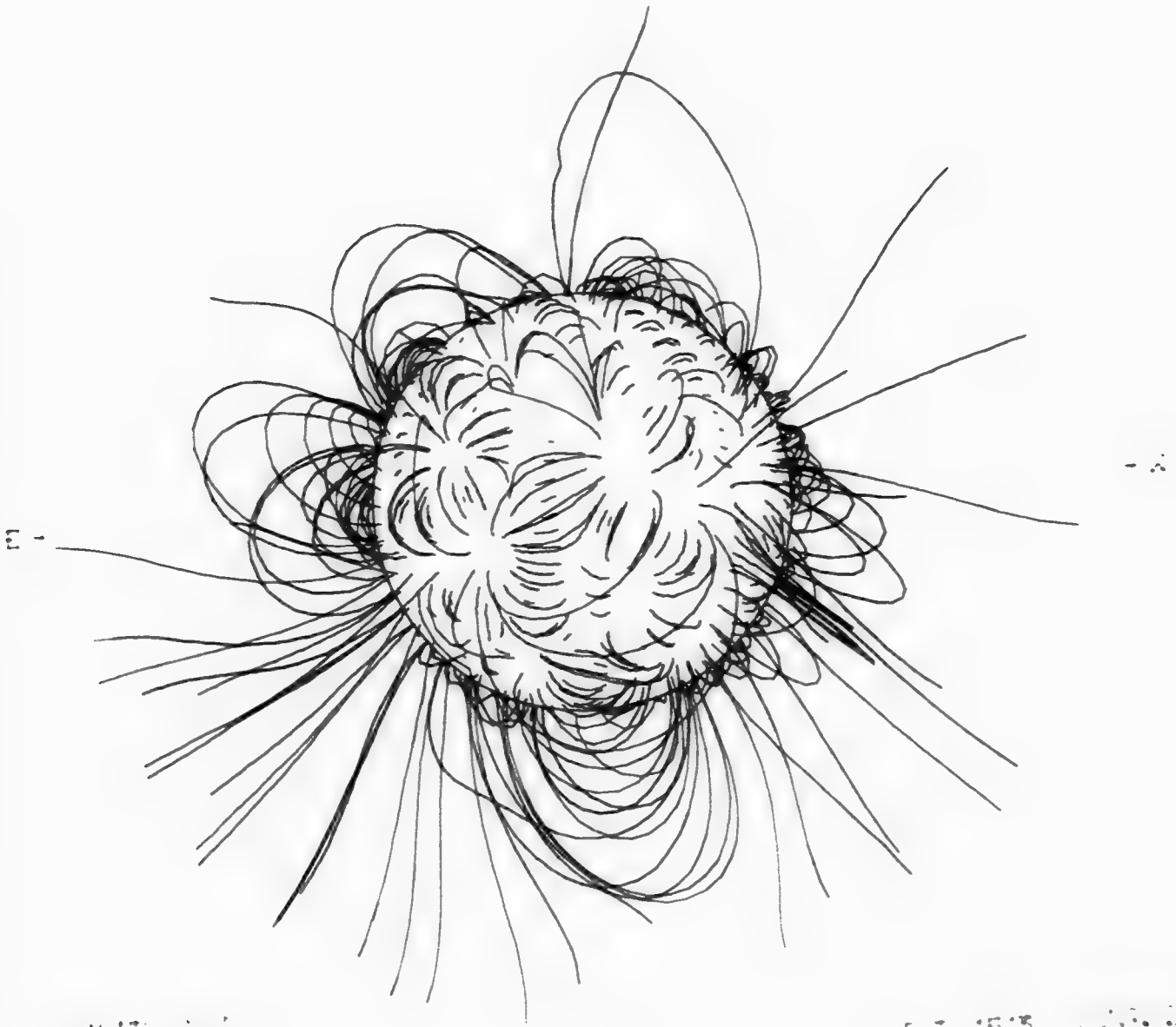


HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

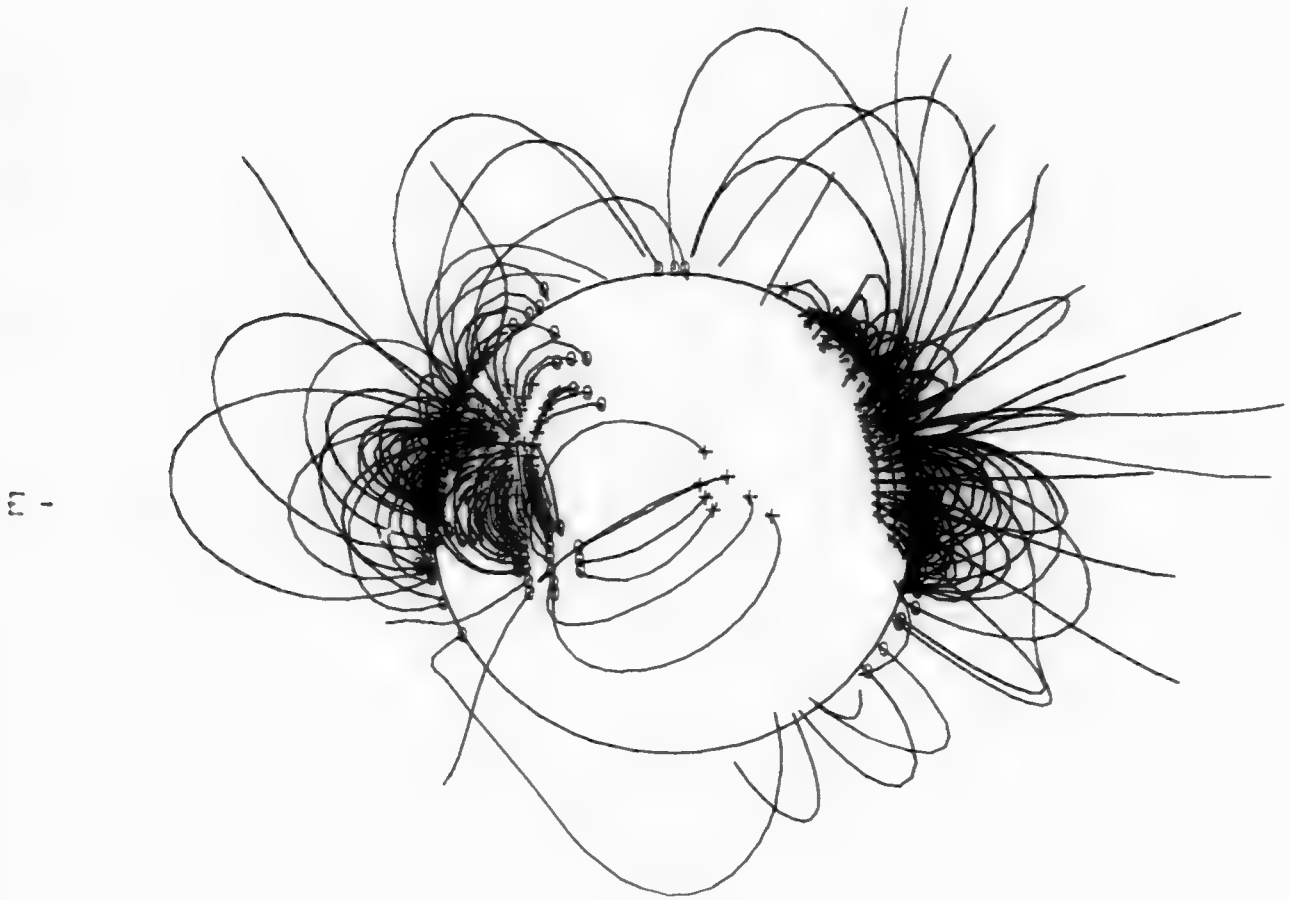


POLES DIRECT

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



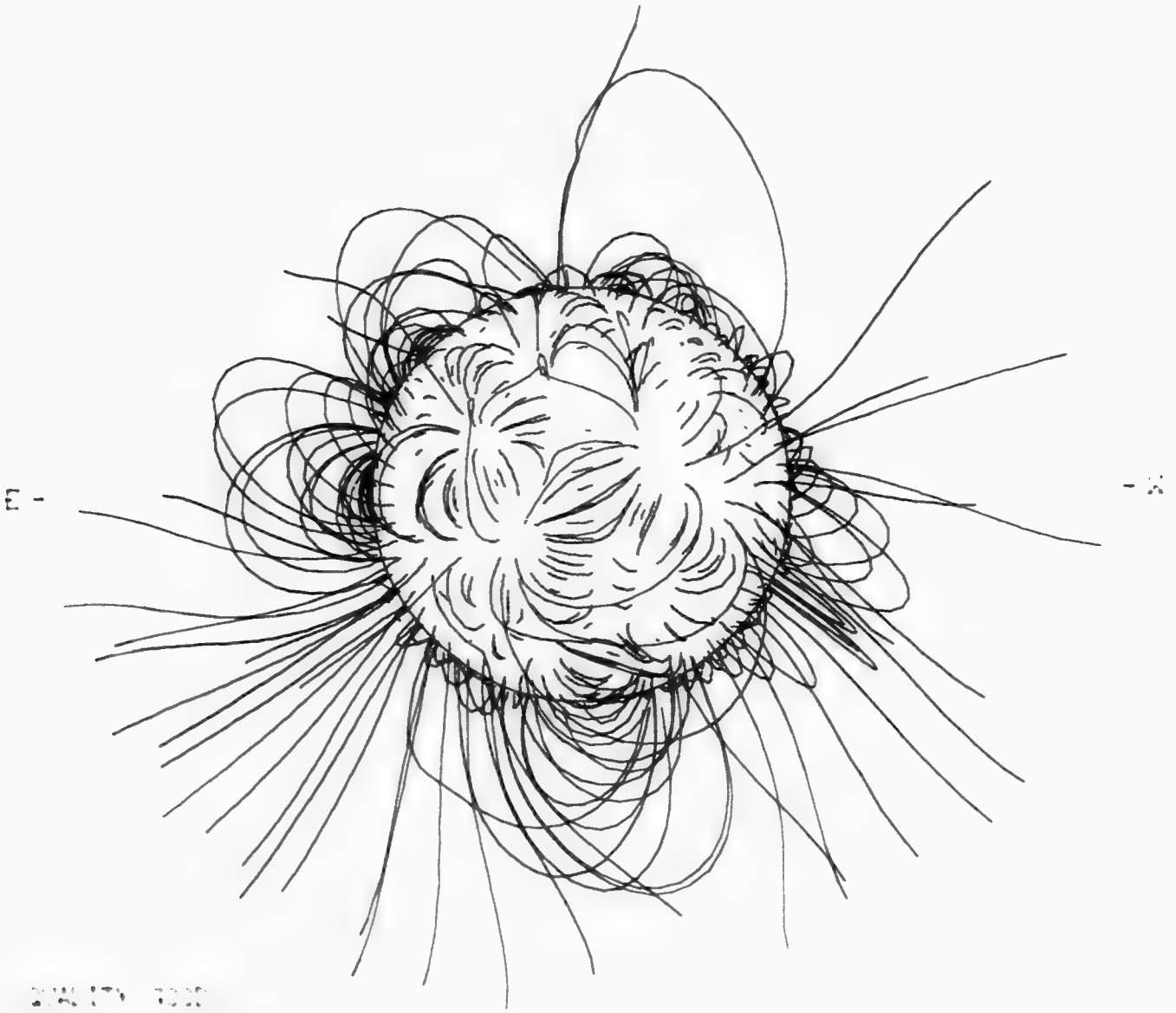
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



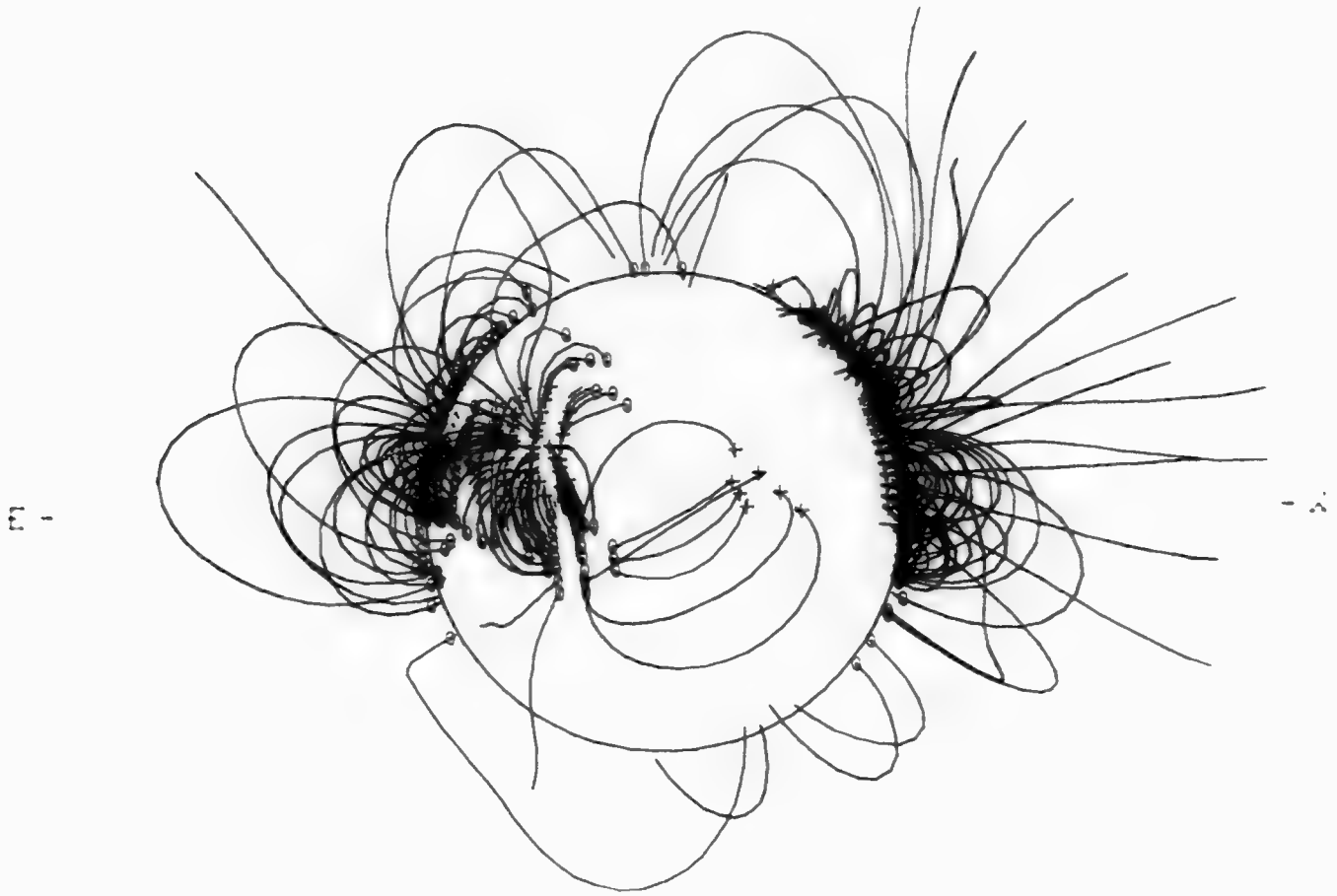
POLES DIRECT

S

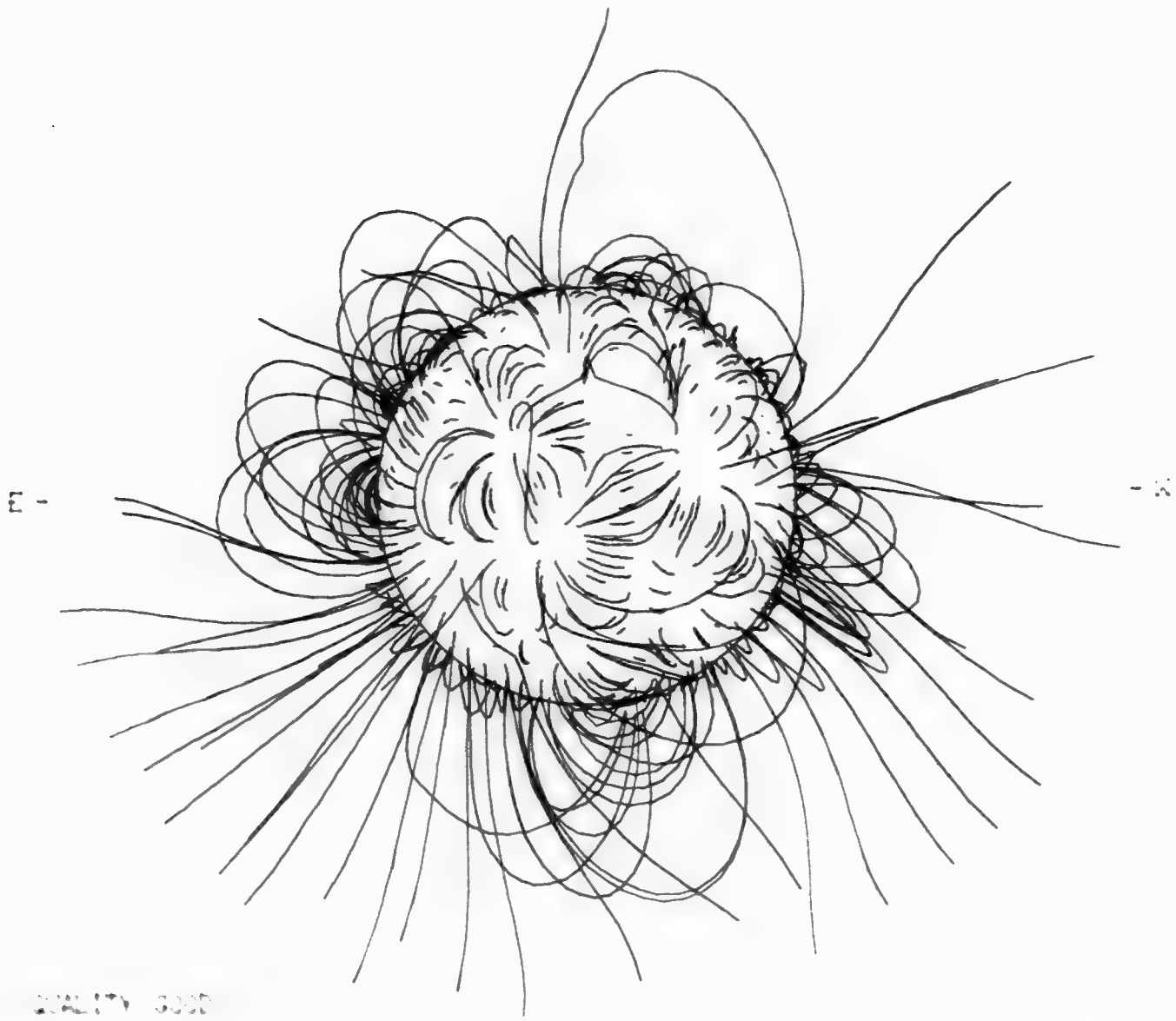
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



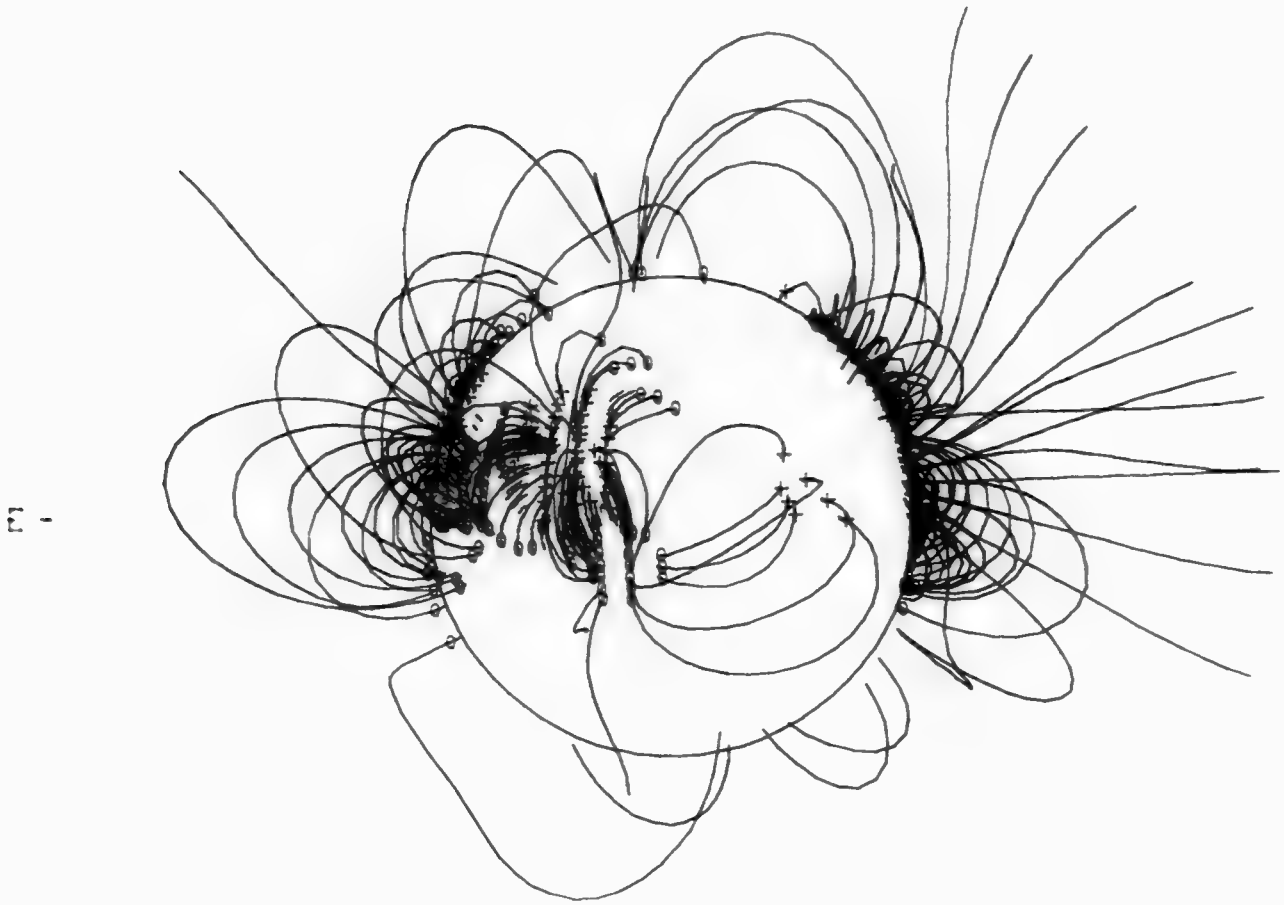
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



QUALITY GOOD

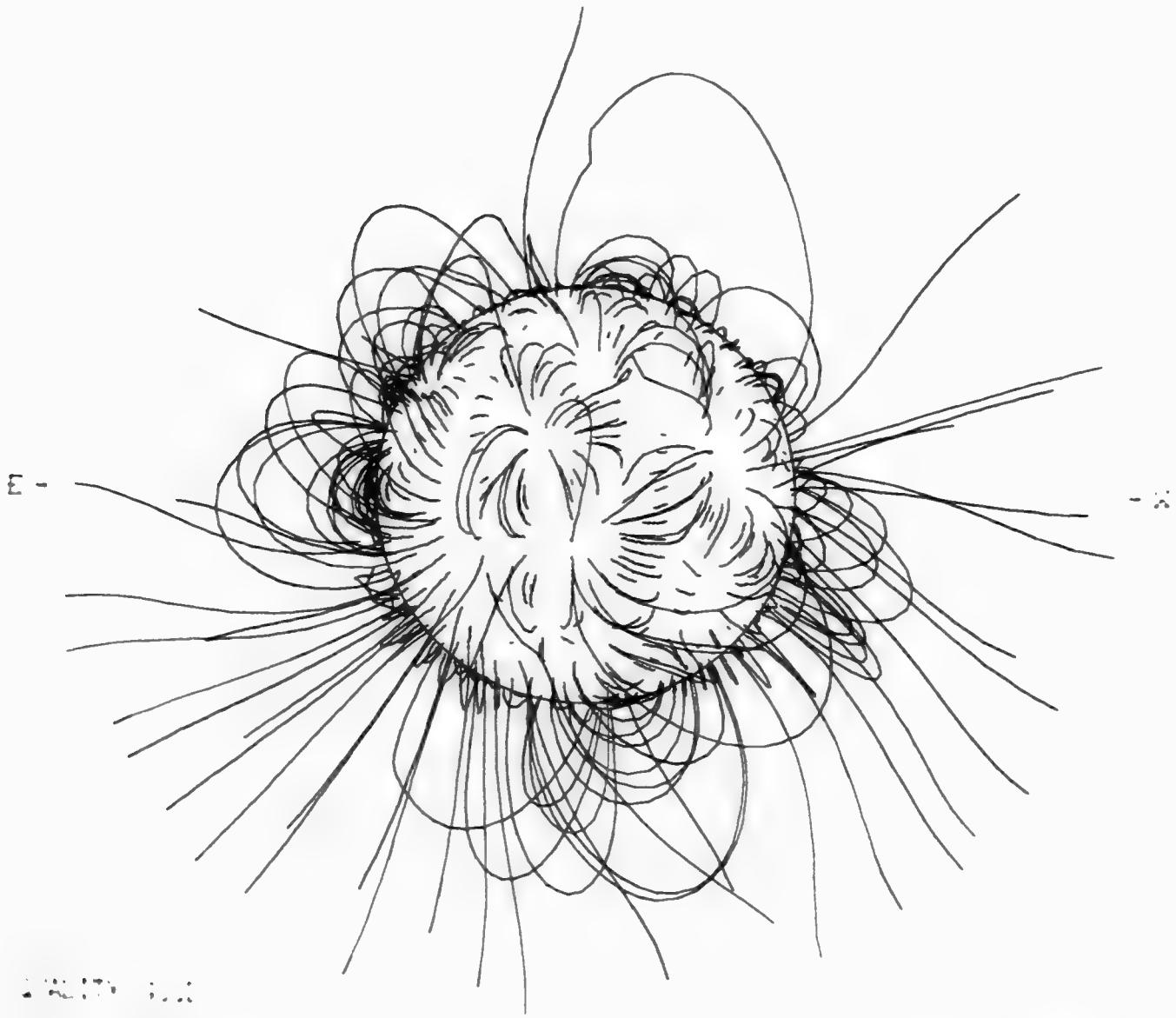
POLES DIRECT

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

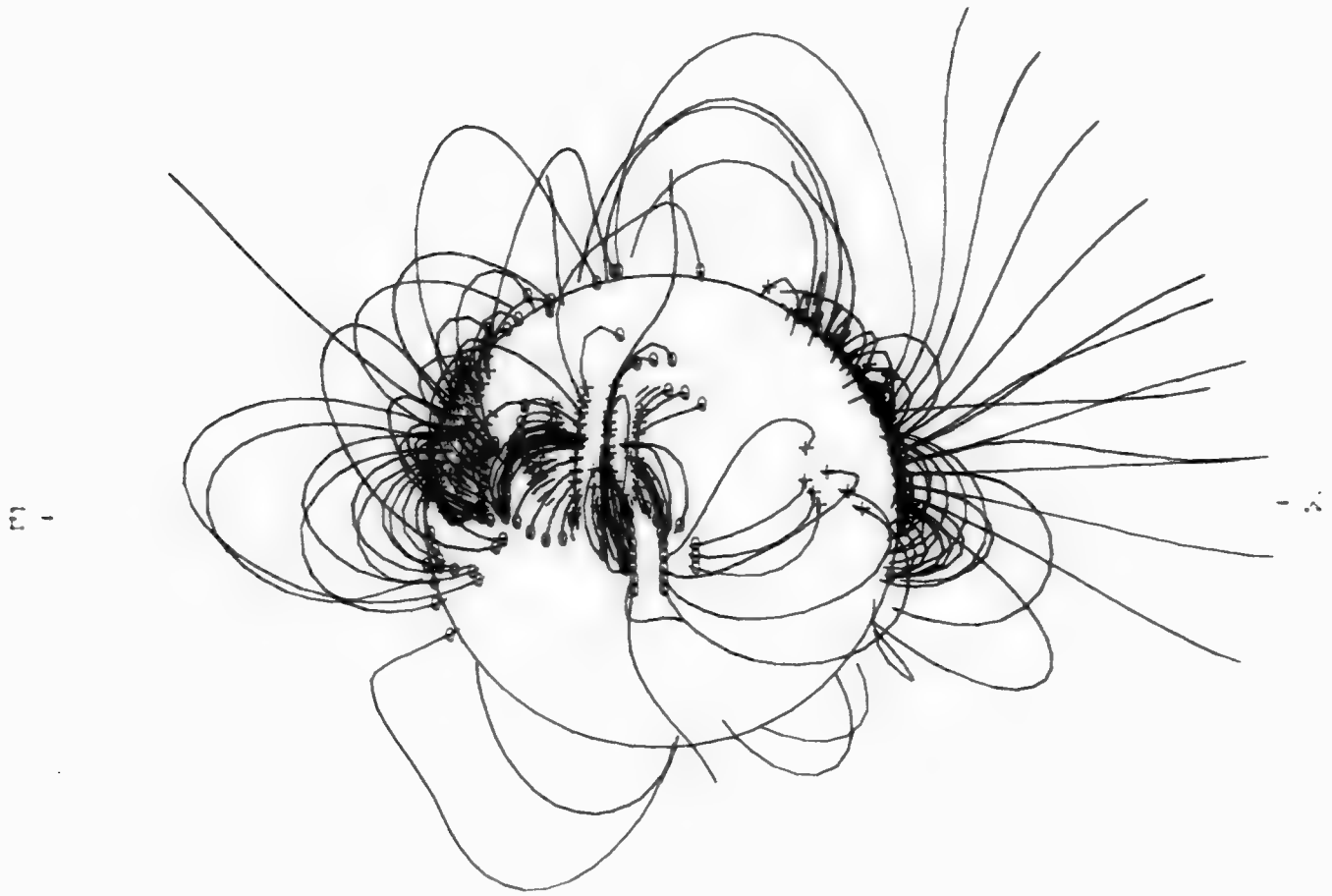


POLES DIRECT

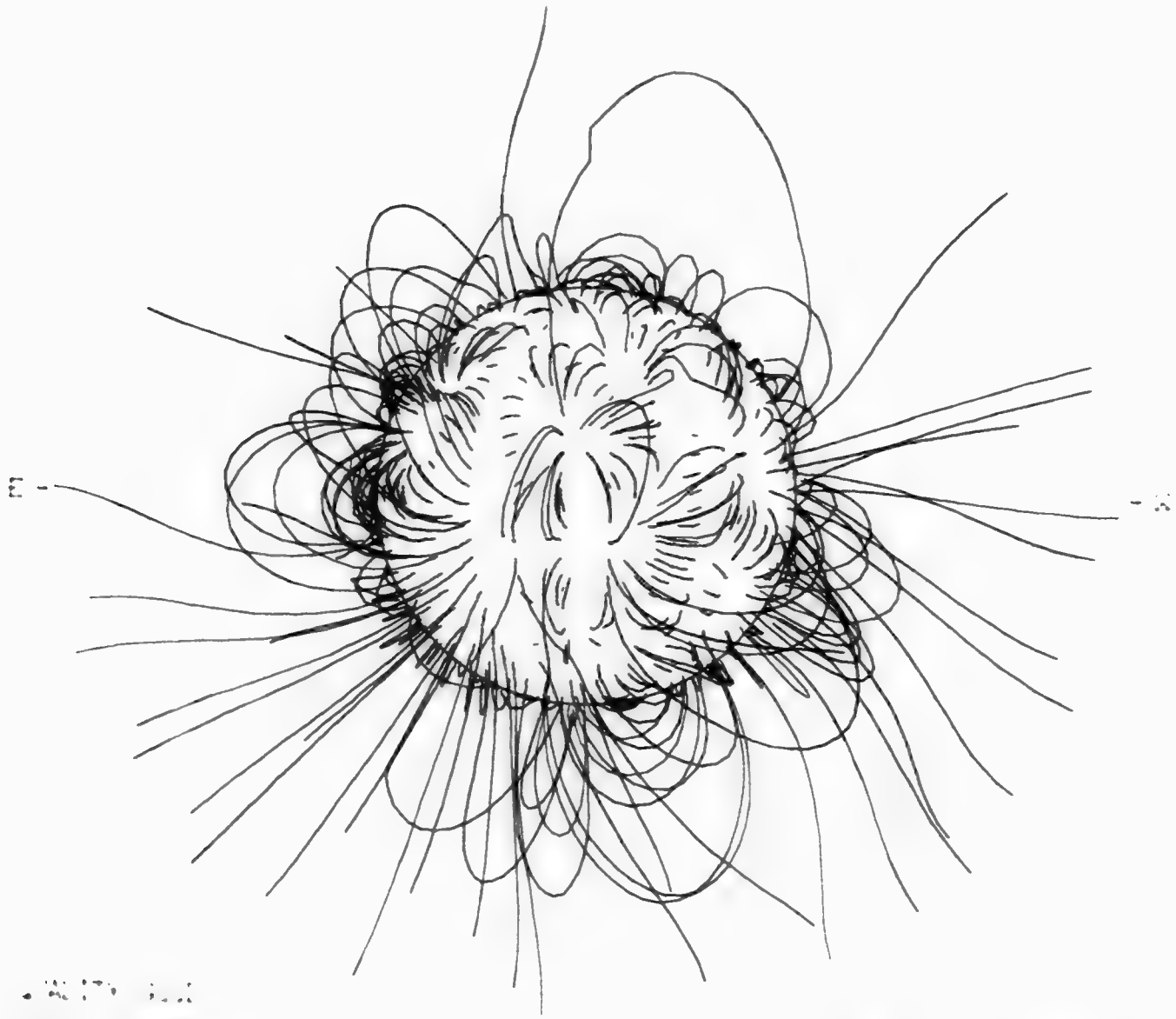
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



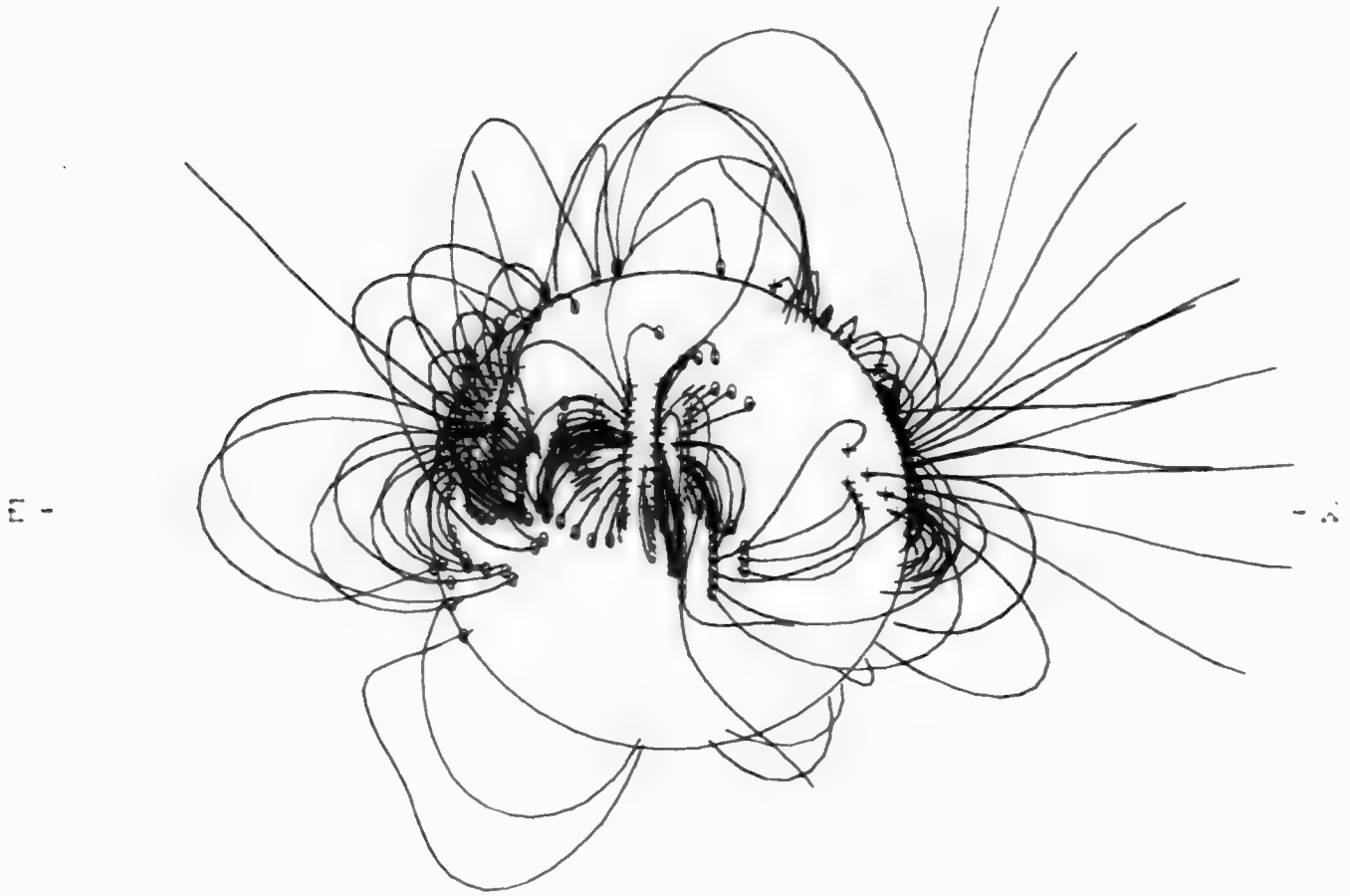
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



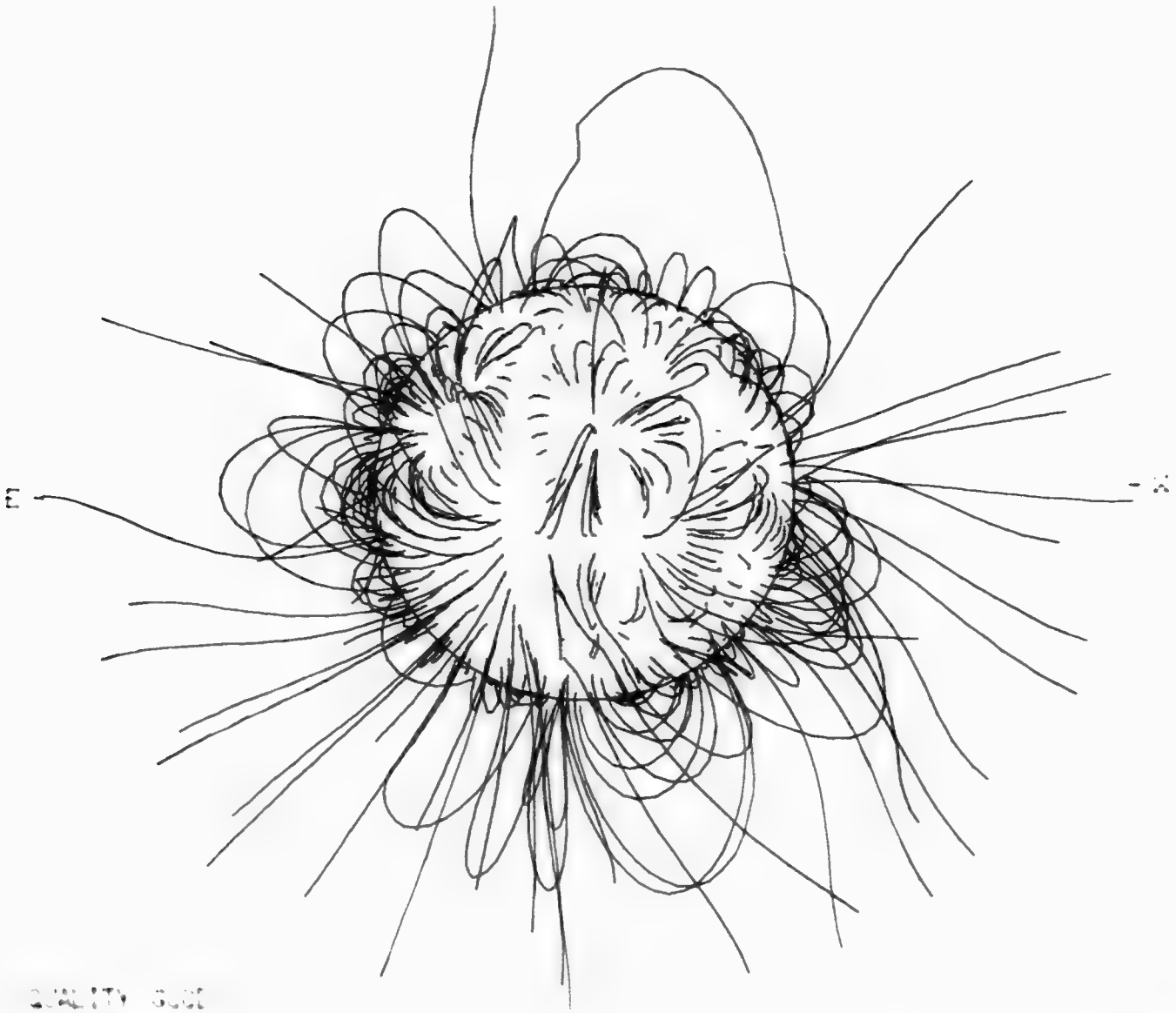
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



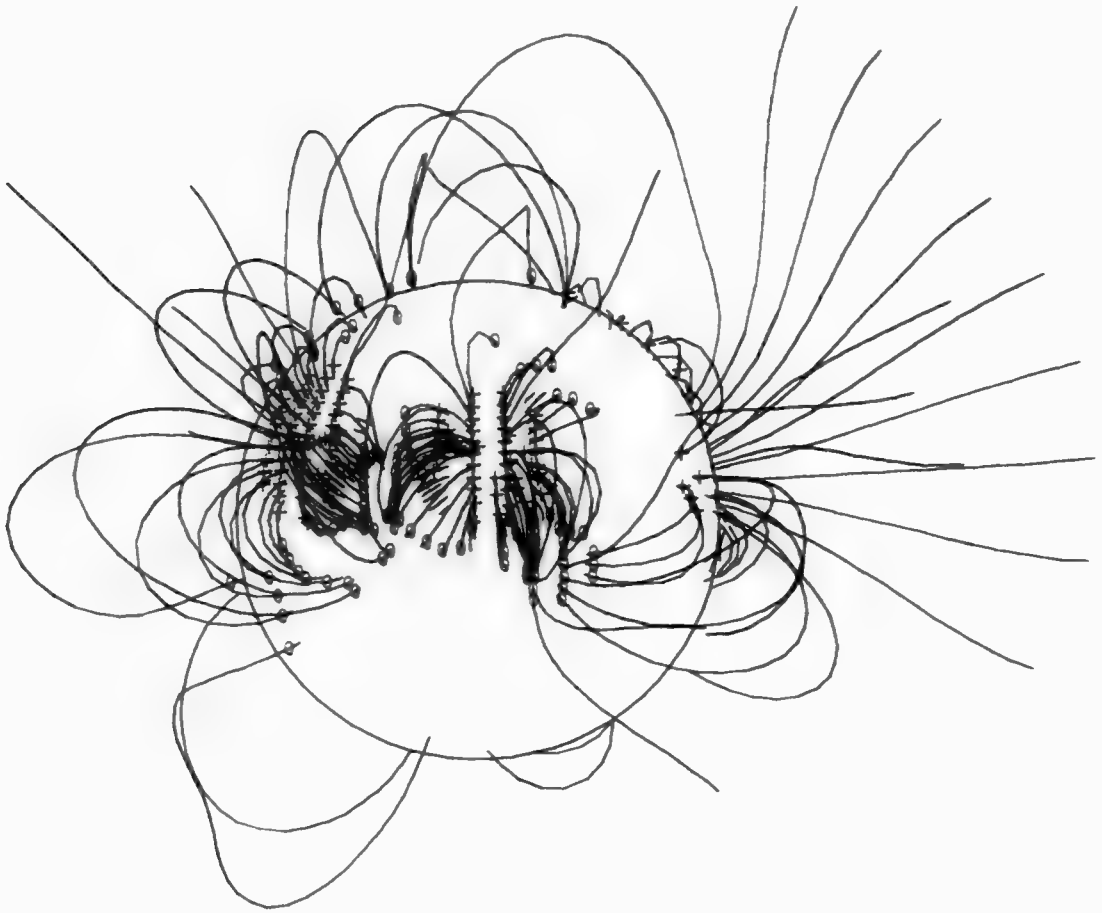
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

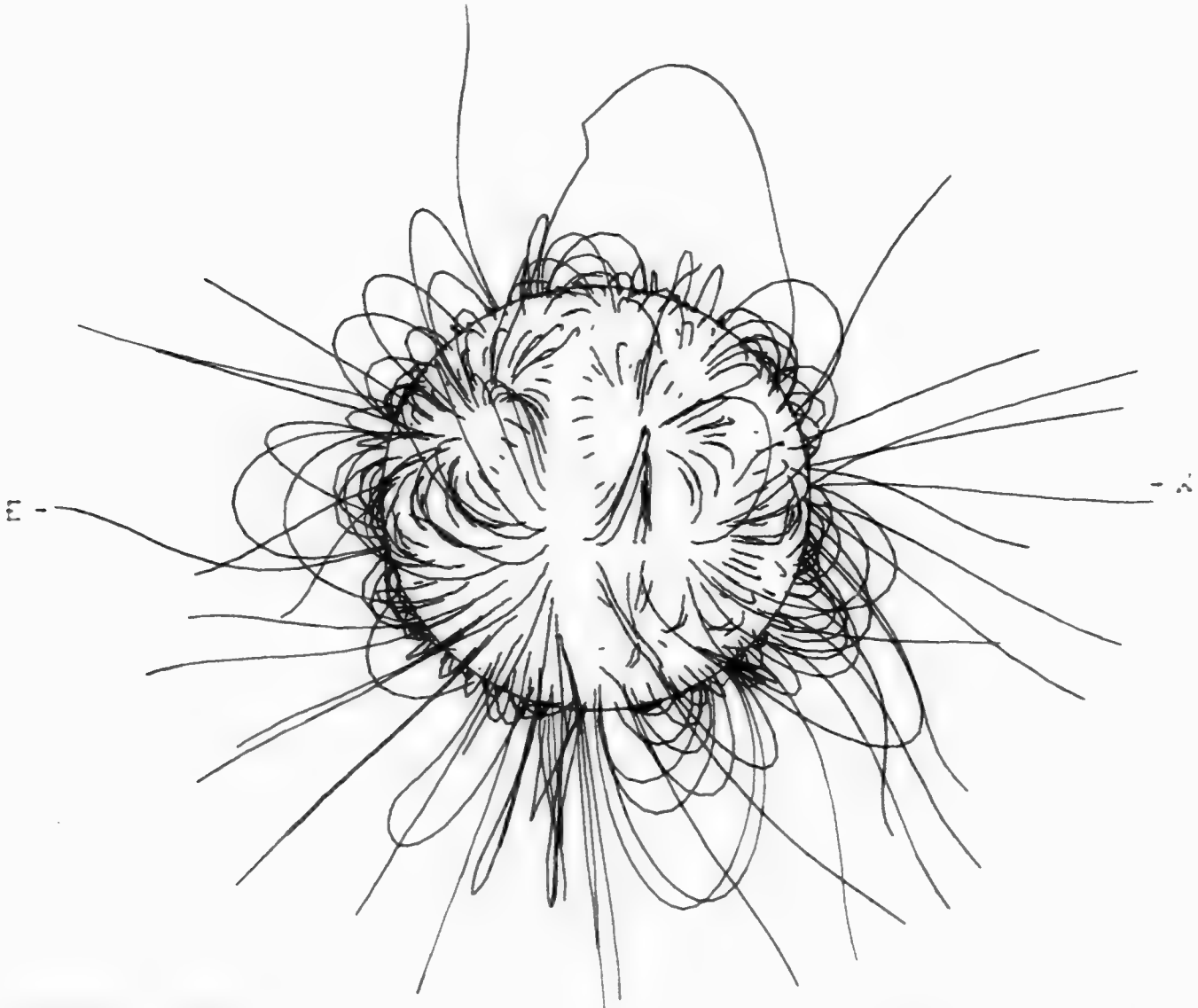


HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



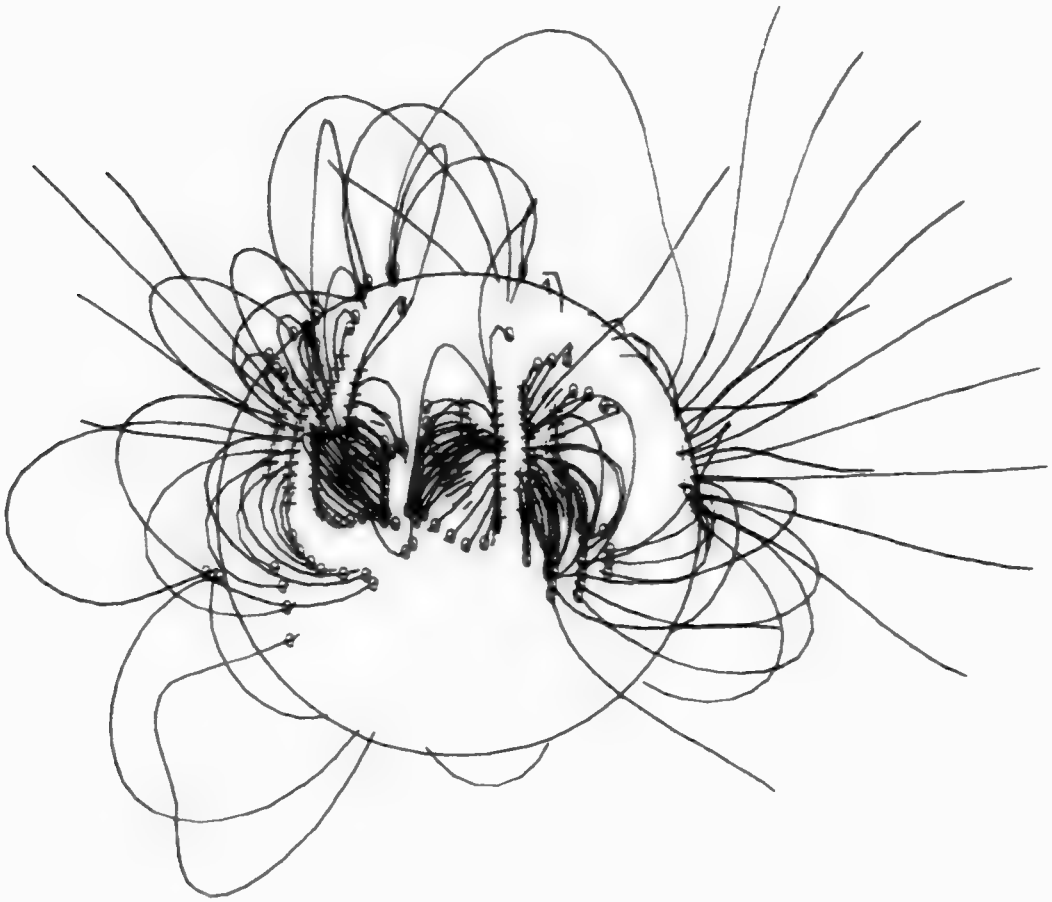
POLES DIRECT

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

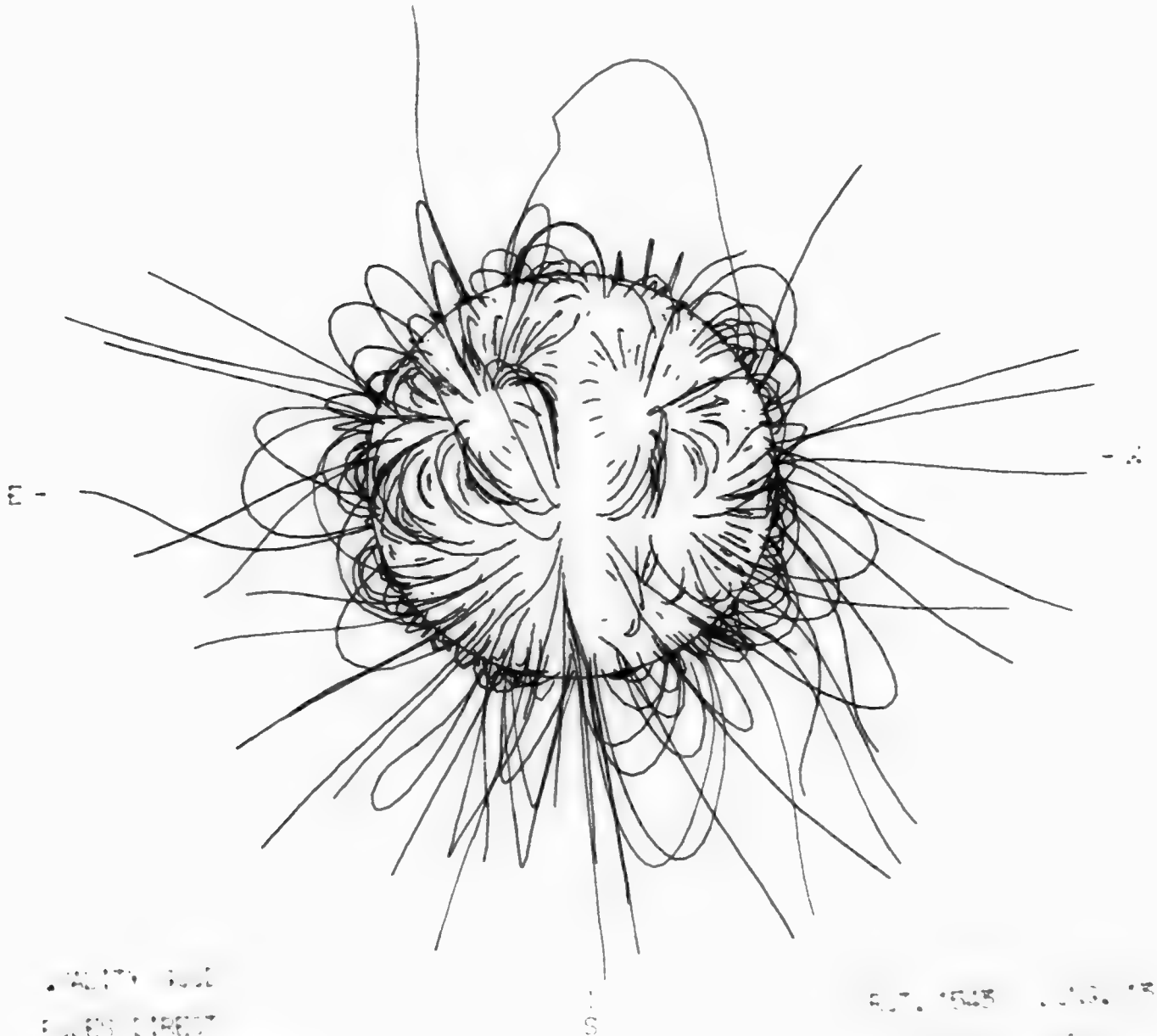


POLES DIRECT

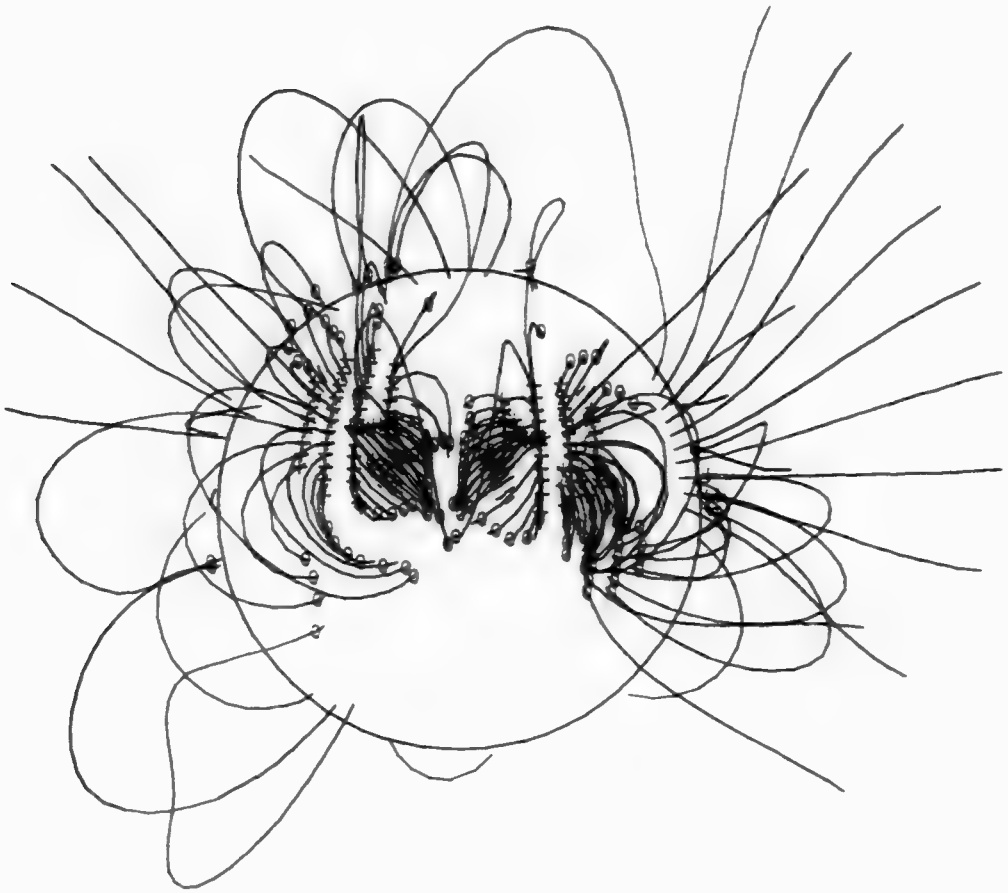
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

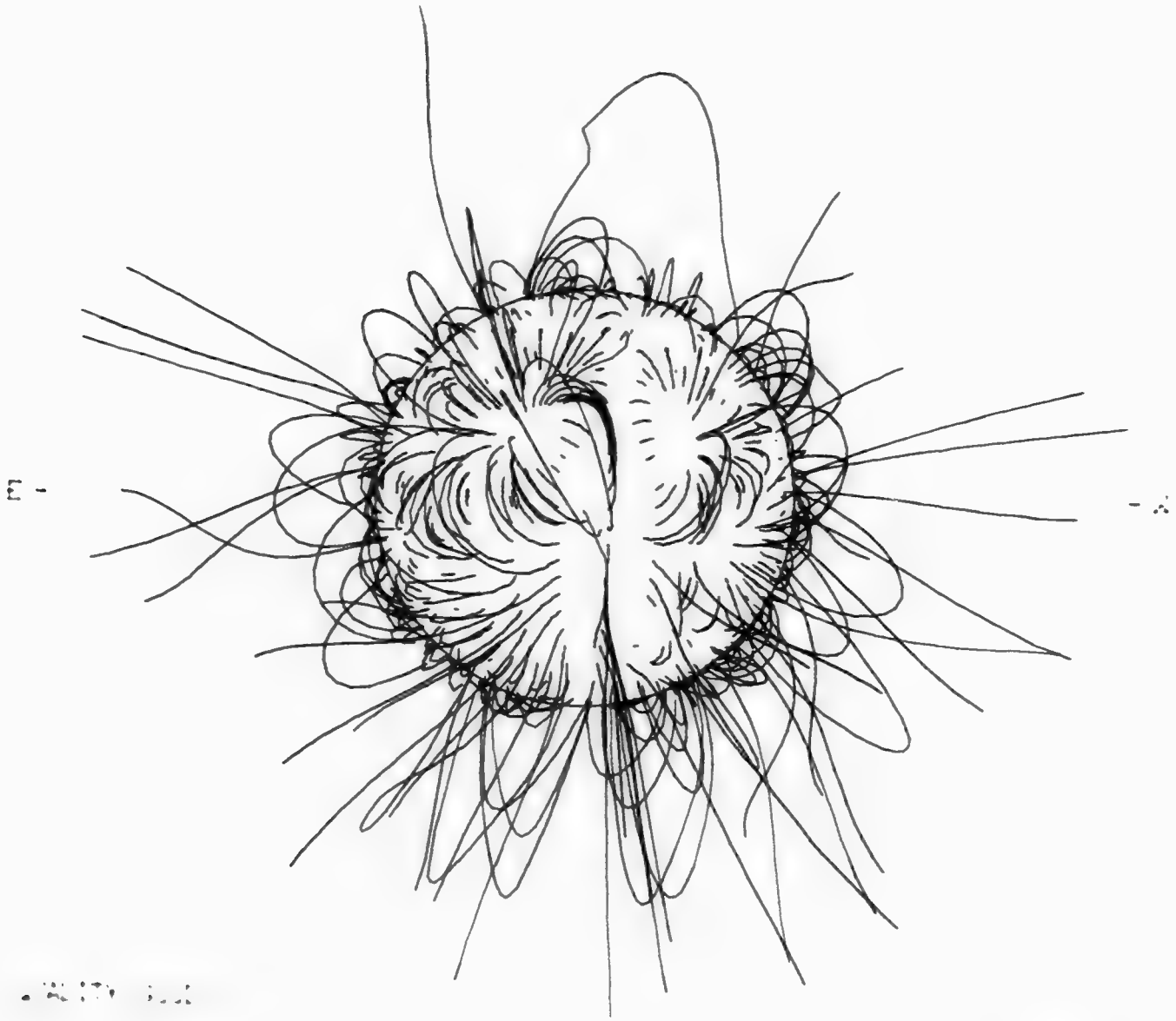


E -

- W

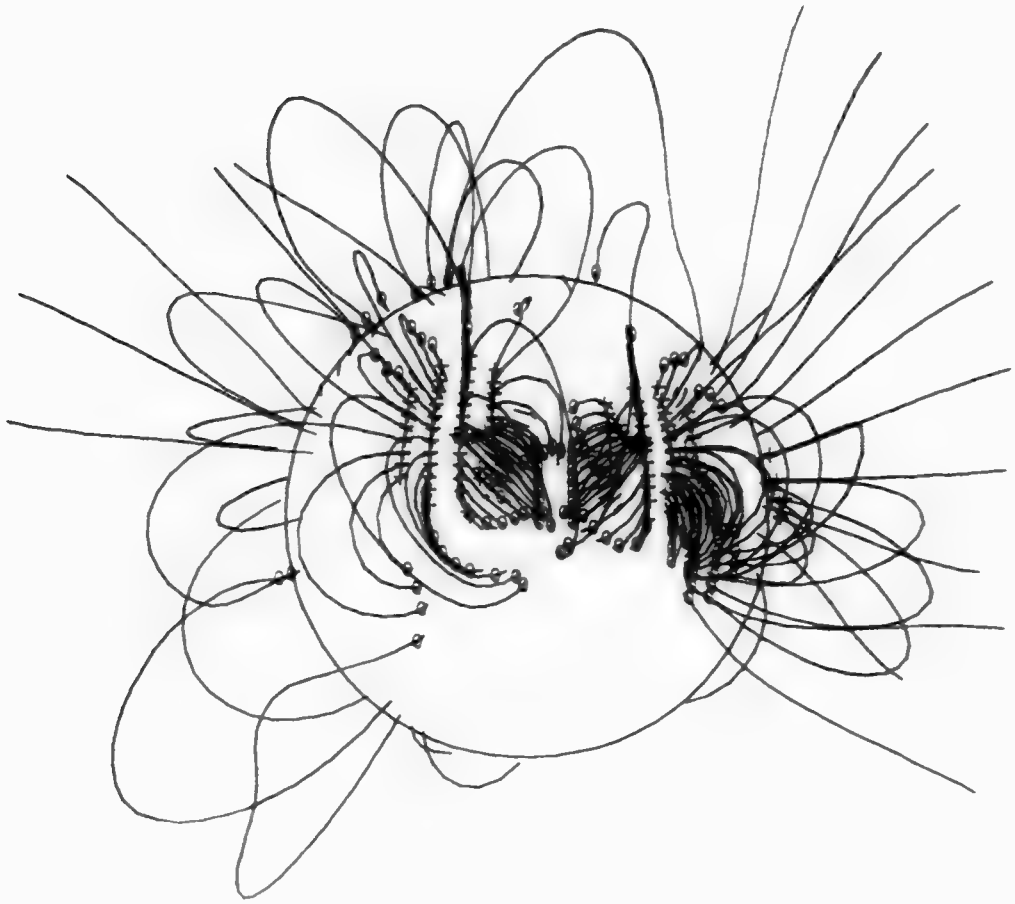
S

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



POLES DIRECT

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



E -

- A

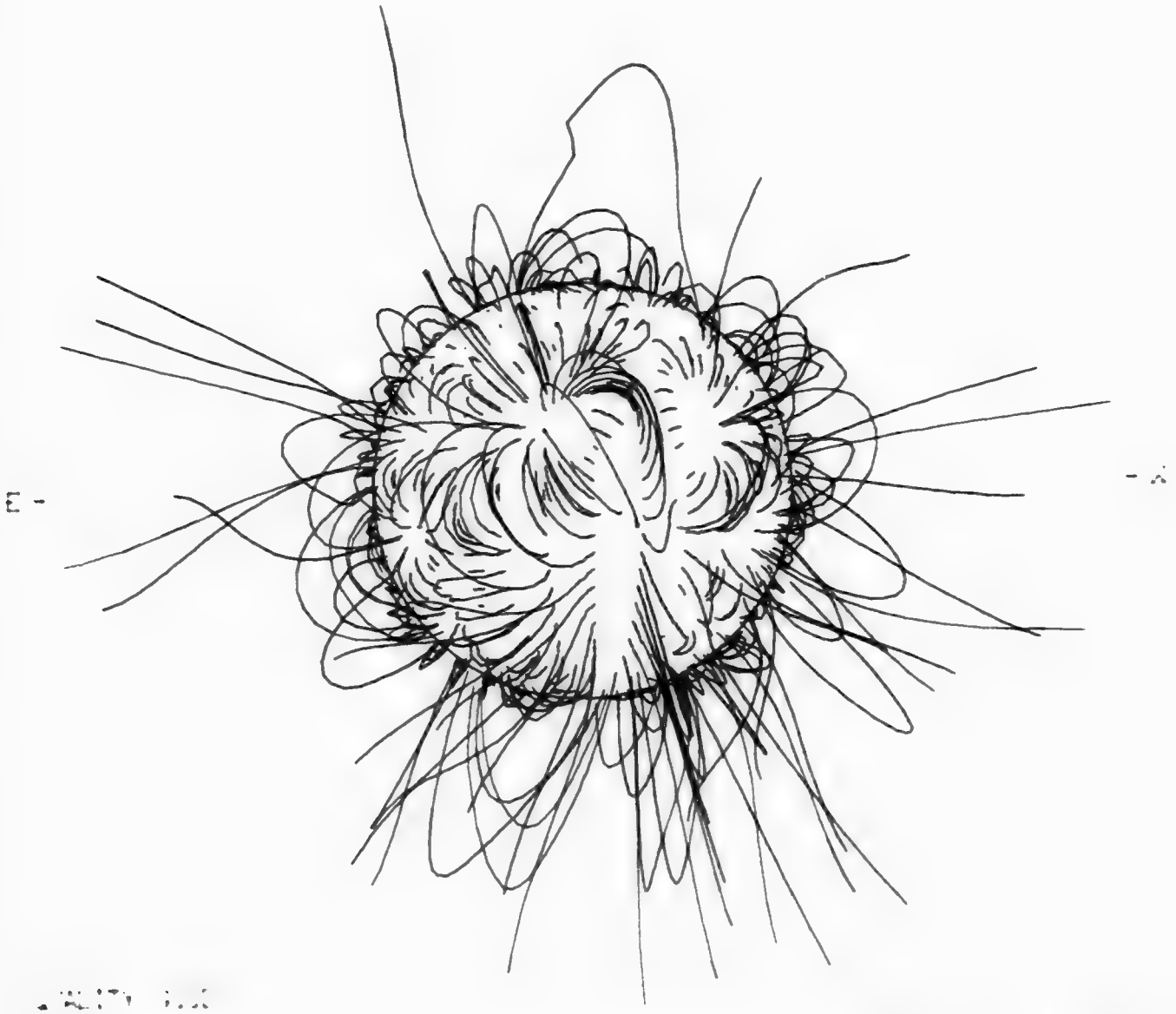
QUALITY GOOD

POLES DIRECT

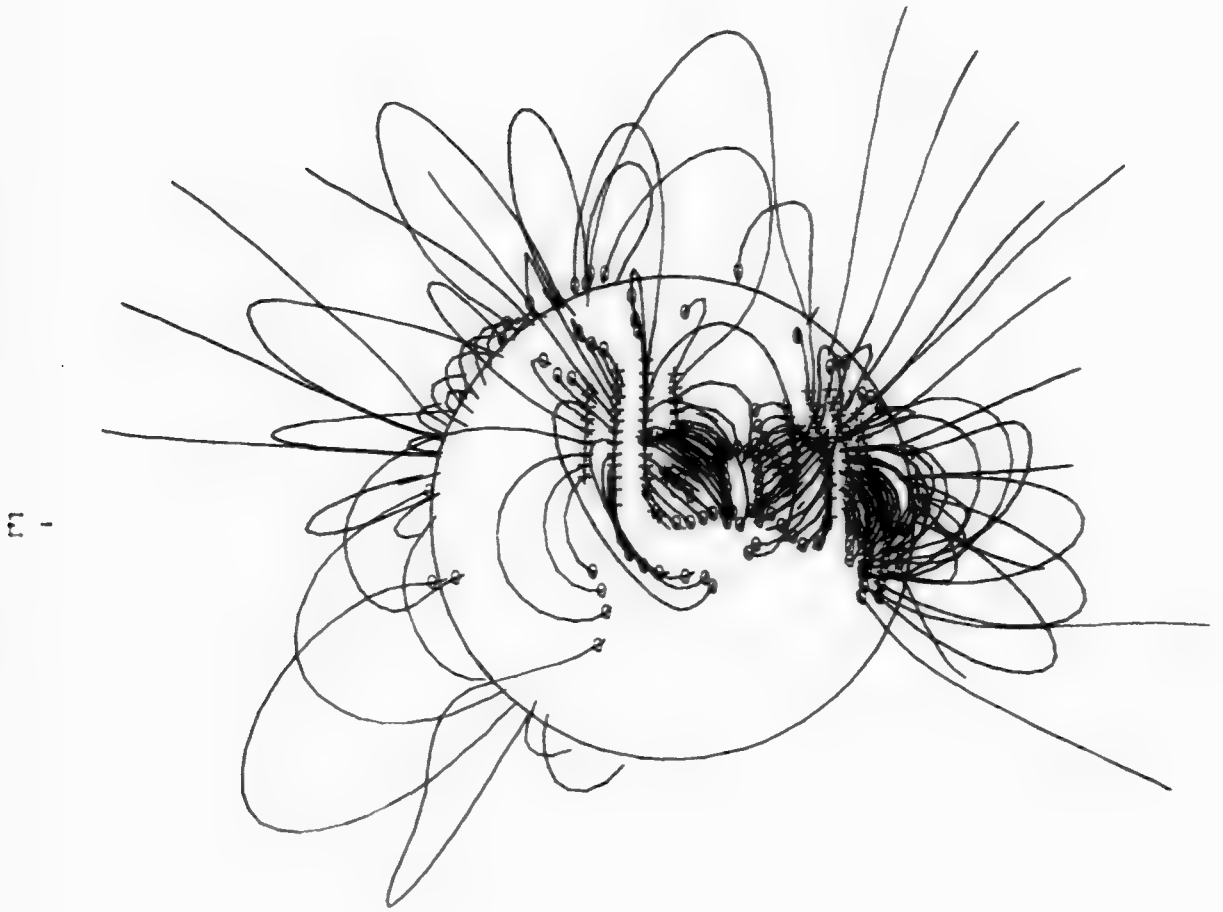
DATA WINDOW 1543.00

ROT. 1543

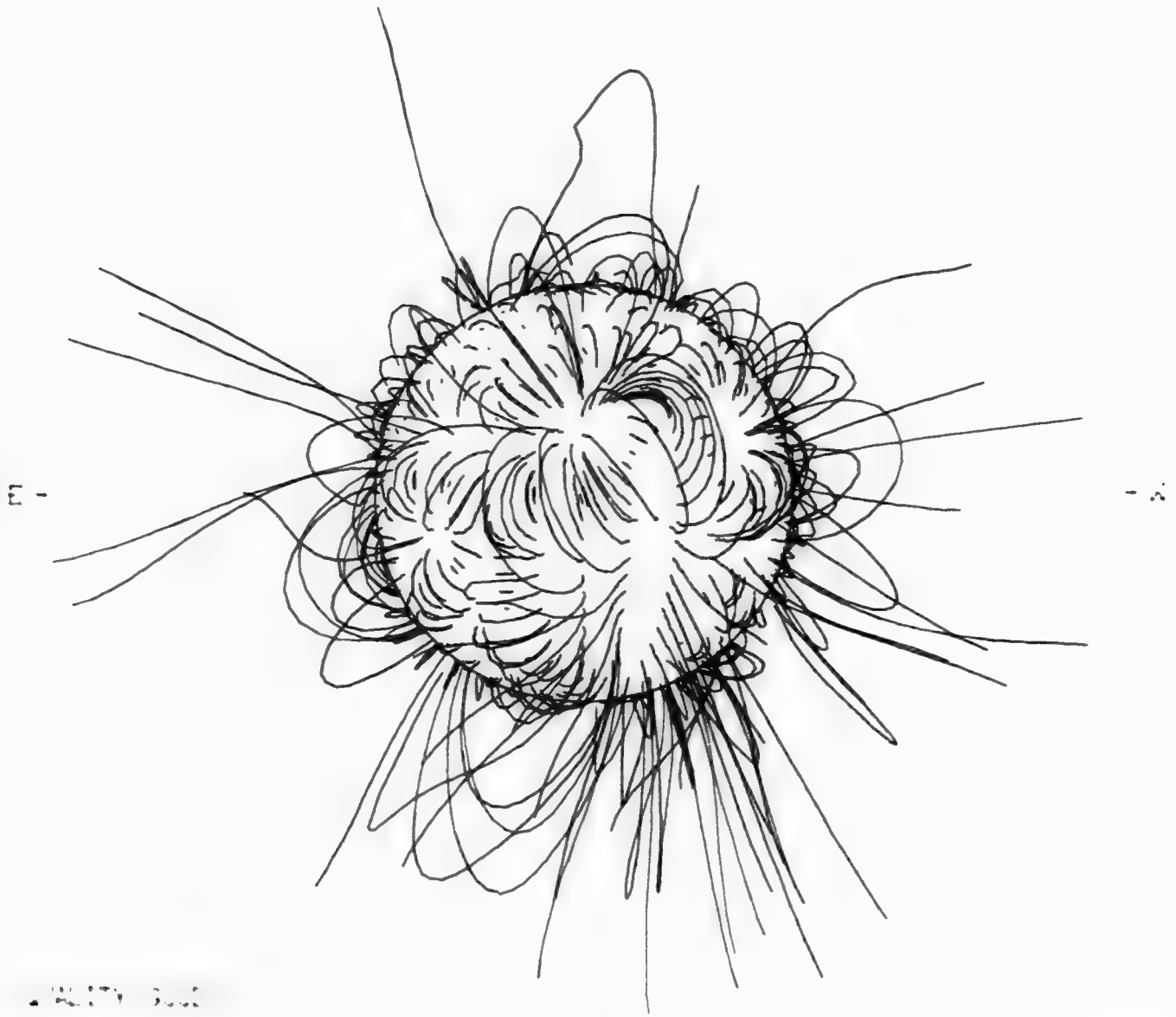
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



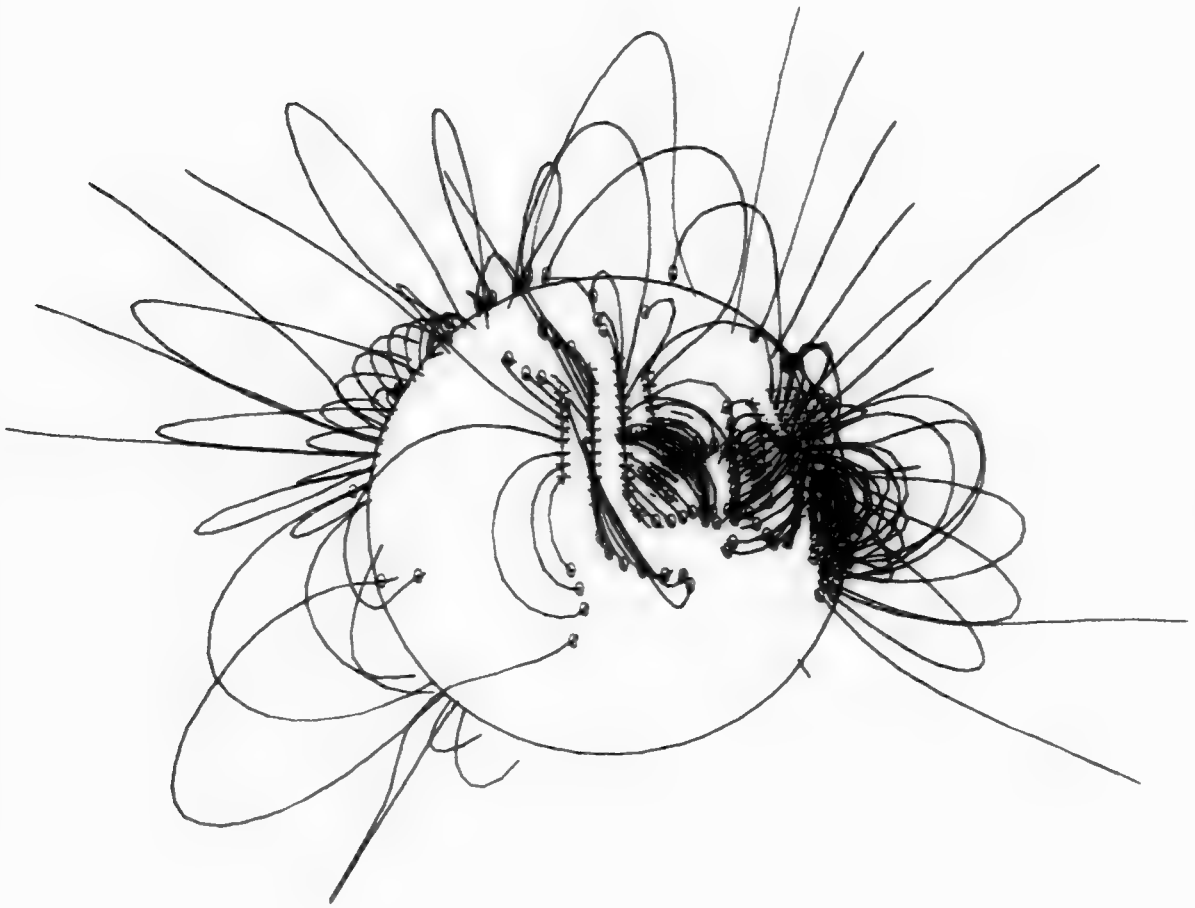
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



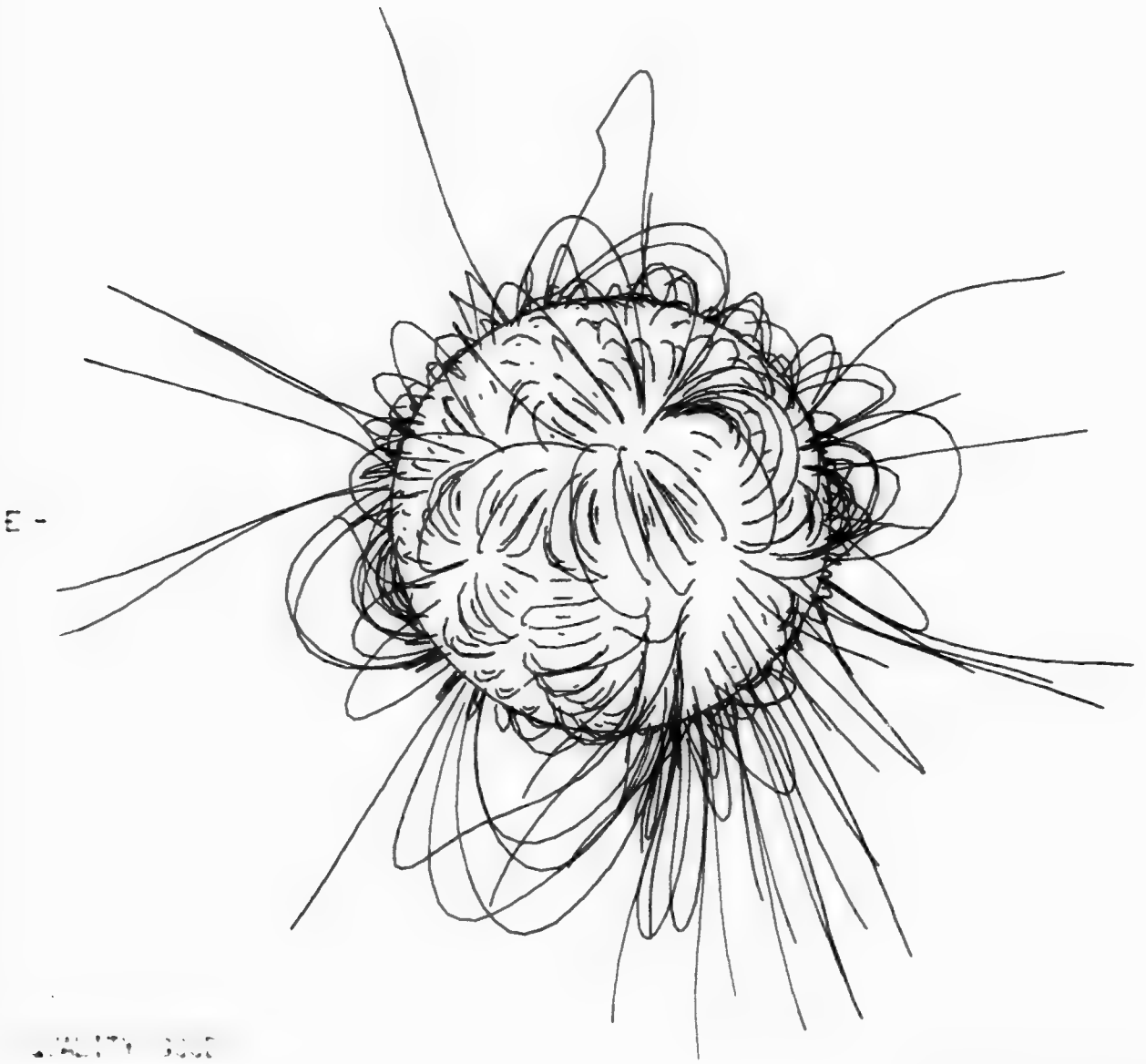
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

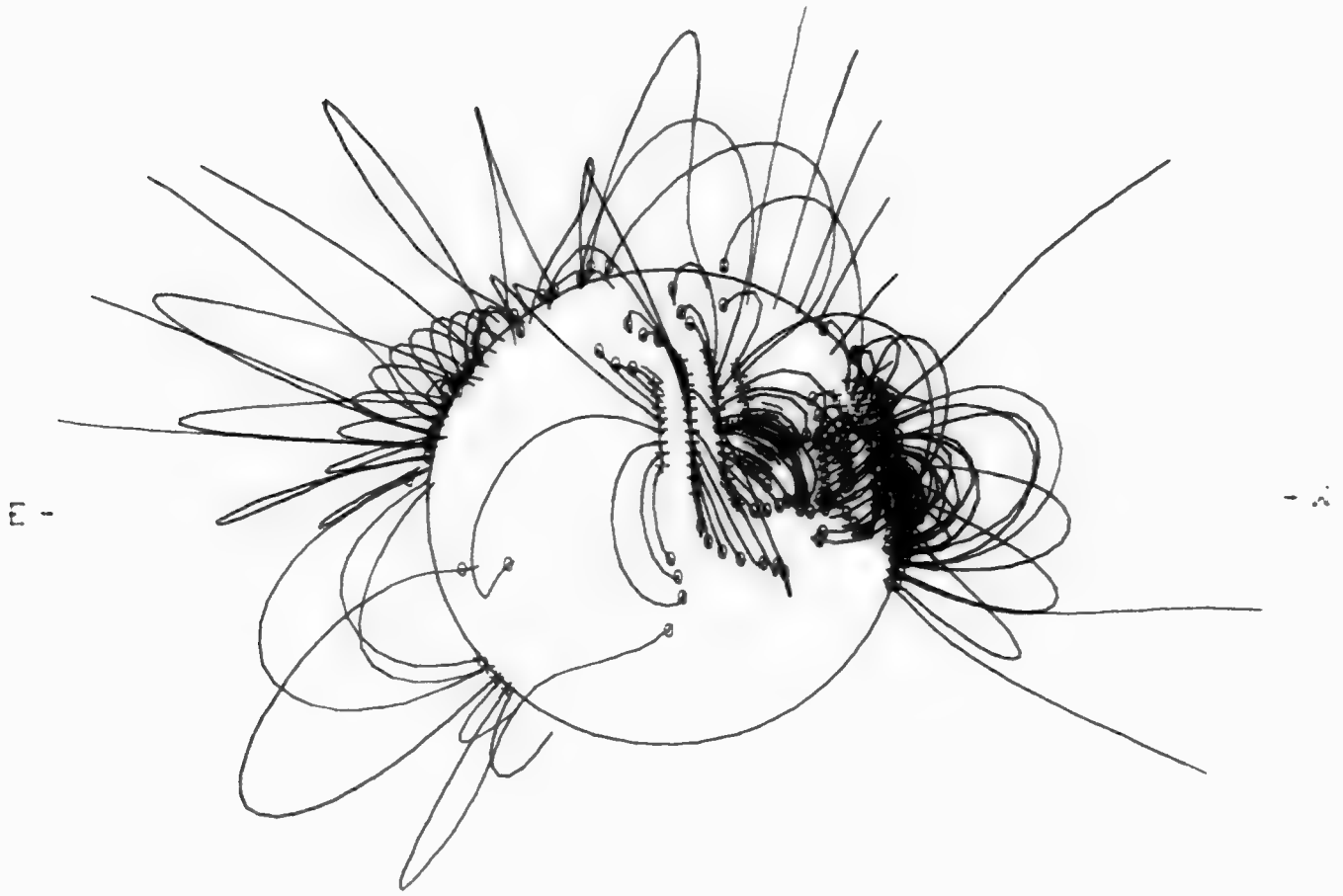


HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



DATA WINDOW 1543.00

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



QUALITY GOOD

POLES DIRECT

DATA [illegible] 1543.00

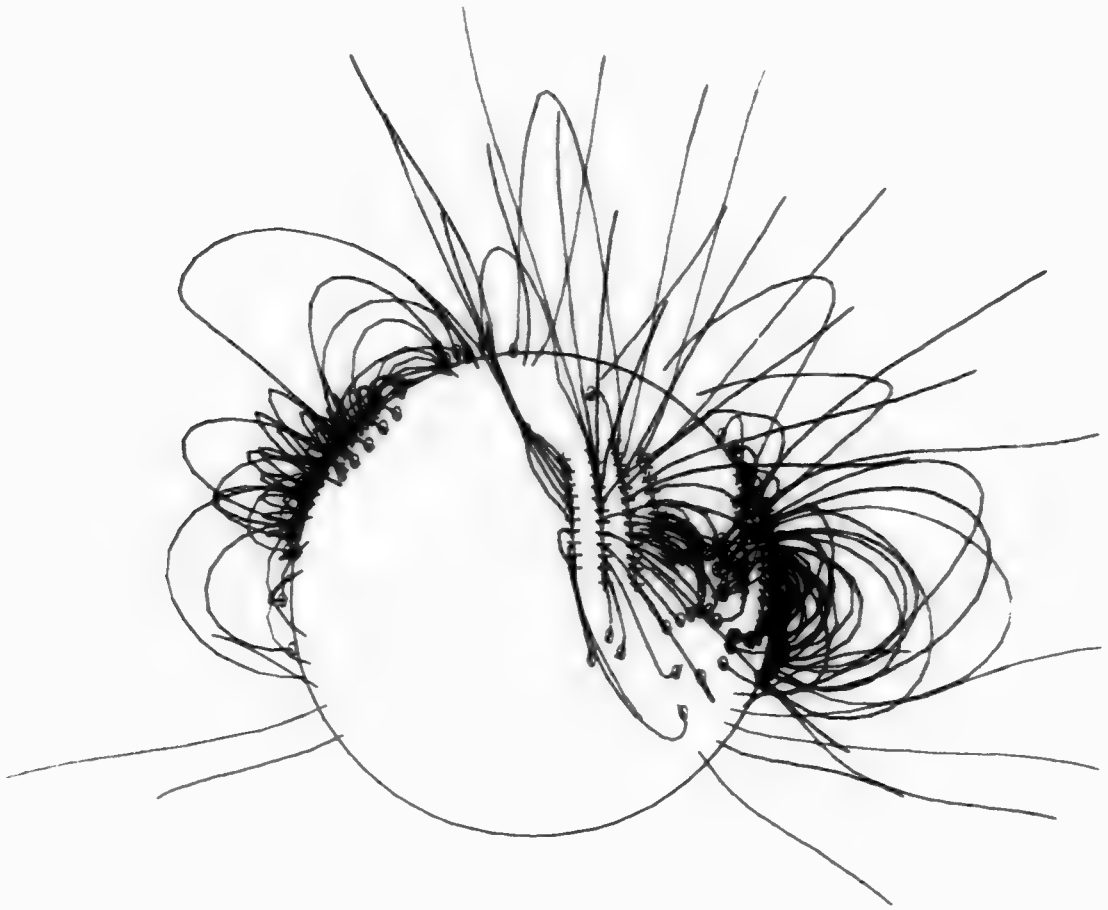
S

R.T. 1543 [illegible]

24.8 [illegible]

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

QUALITY GOOD

POLES DIRECT

DATA [illegible] 1543.47

ROT. 1543 [illegible]

26.4 [illegible]

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N

E -

- W

S

QUALITY GOOD

POLES DIRECT

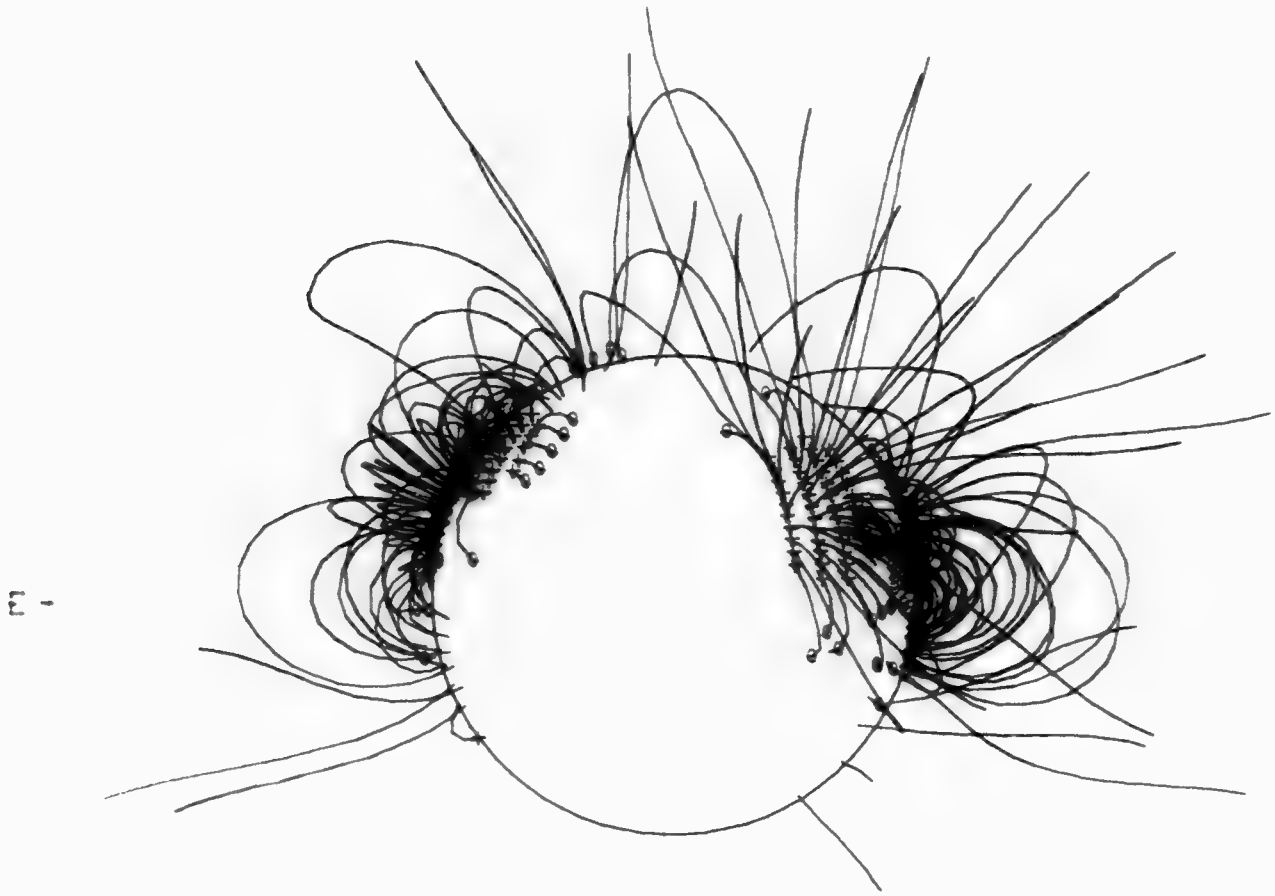
DATA WINDOW 1543.4"

ROT. 1543 [illegible]

25.4 [illegible]

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

QUALITY [illegible]

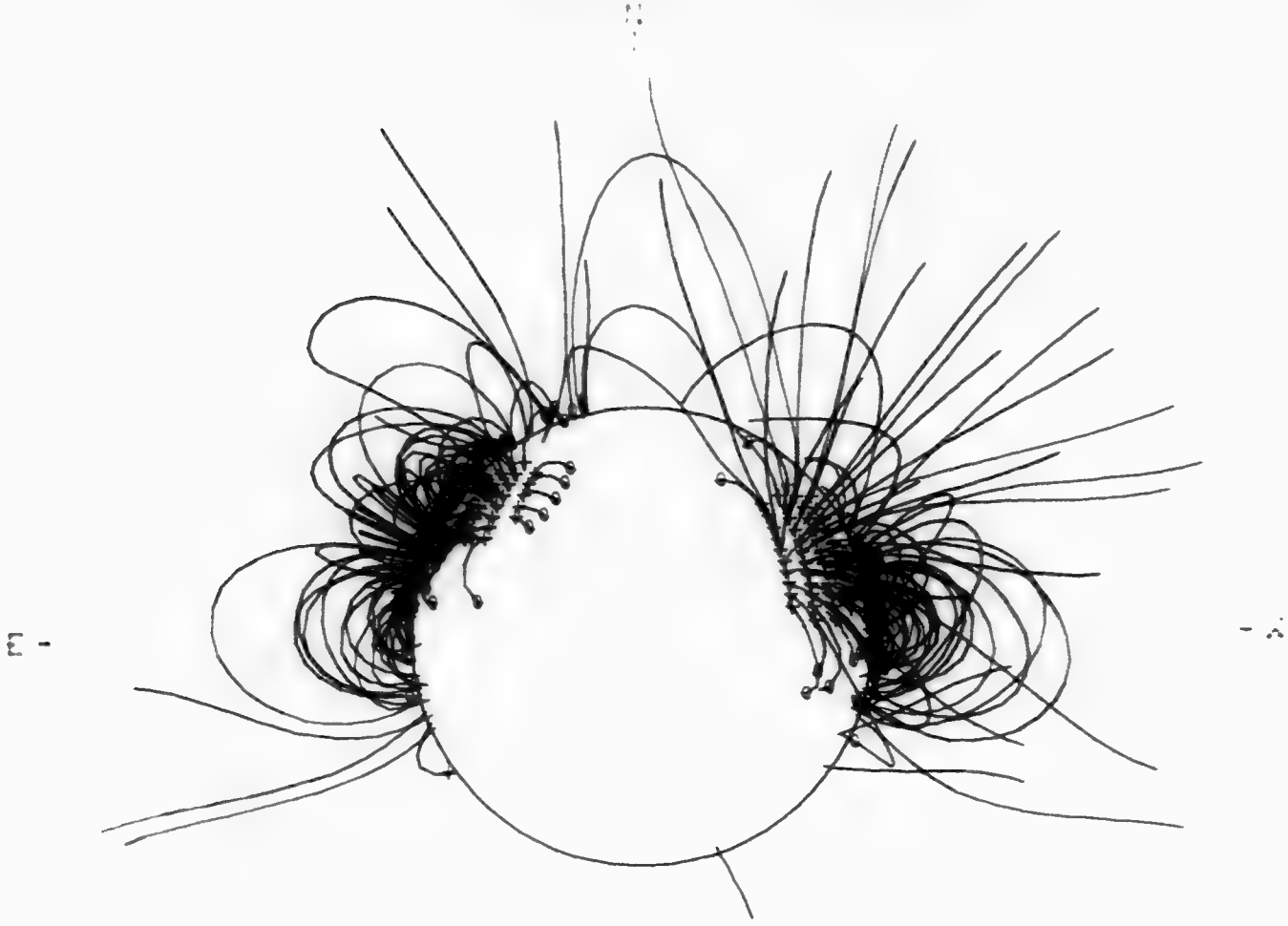
PILES DIRECT

DATA AVAILABLE 1543.4"

R.T. 1543 [illegible] 51°

27.9 [illegible]

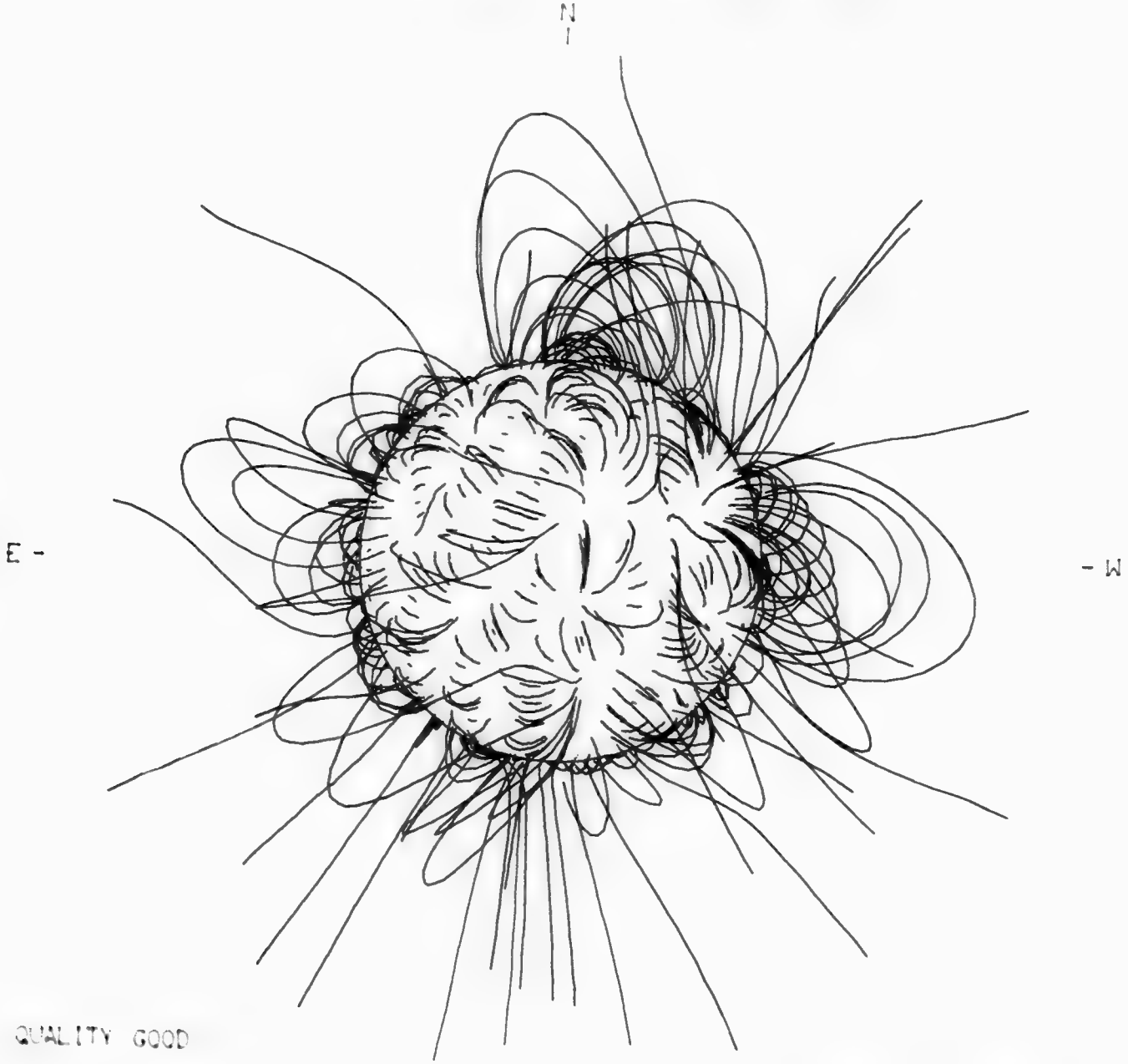
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



POLES DIRECT

DATA WINDOW 1543.47

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



QUALITY GOOD

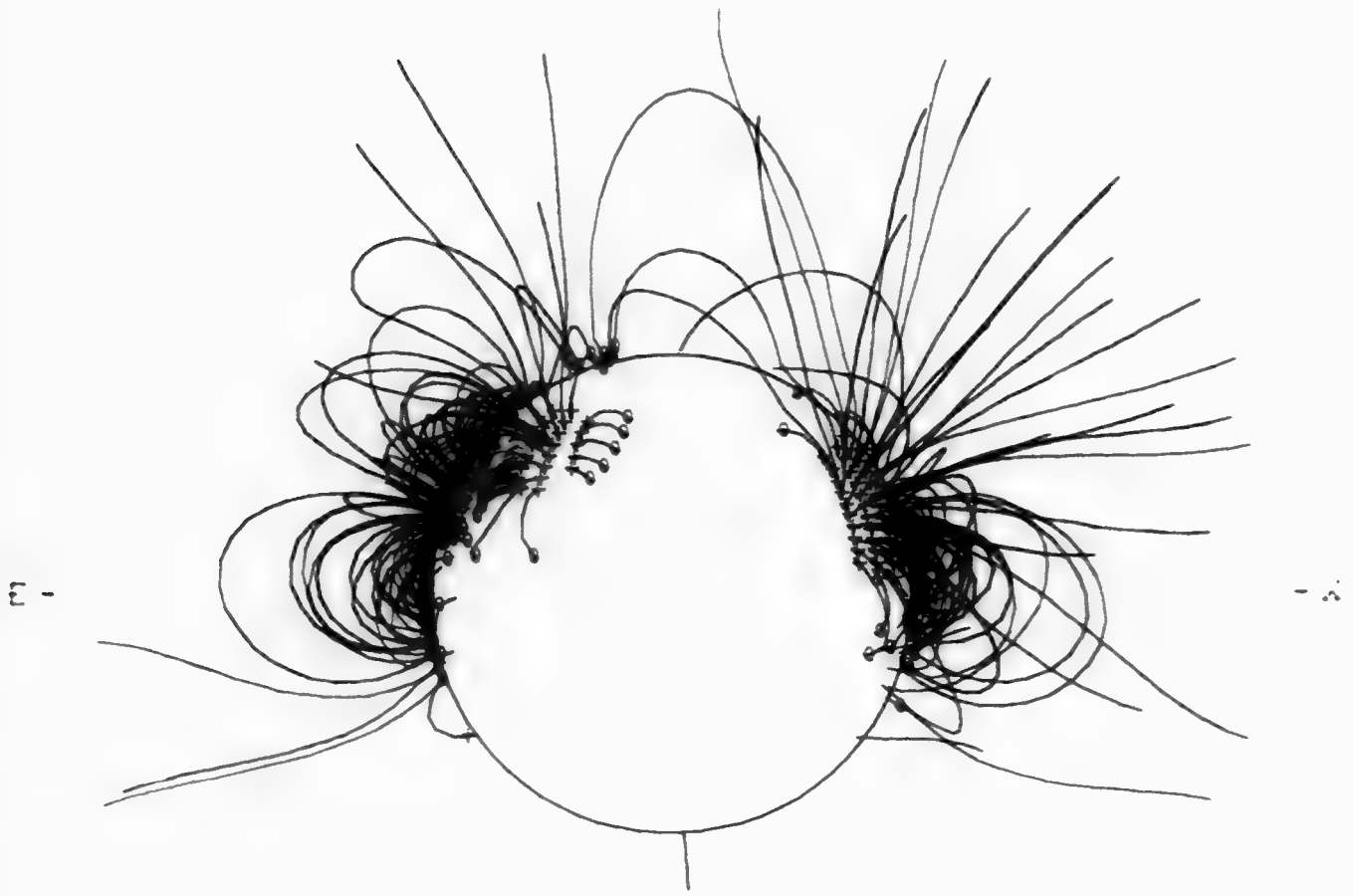
POLES DIRECT

DATA WINDOW 1543.47

ROT. 1543 LONG. 40°

28.7 JAN. 1969

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



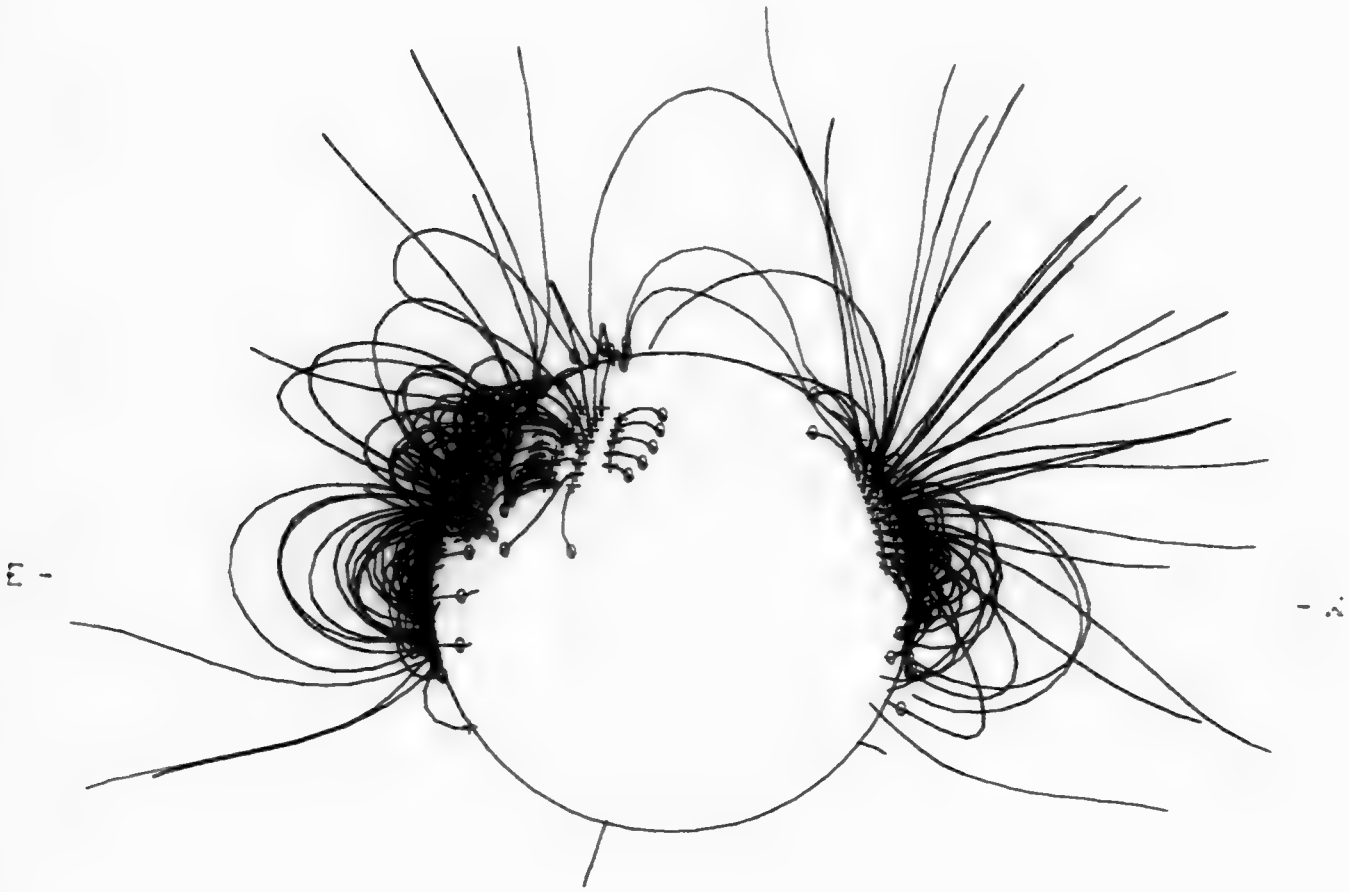
POLES DIRECT

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

POLES STREET

DATA WINDOW 1543.47

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

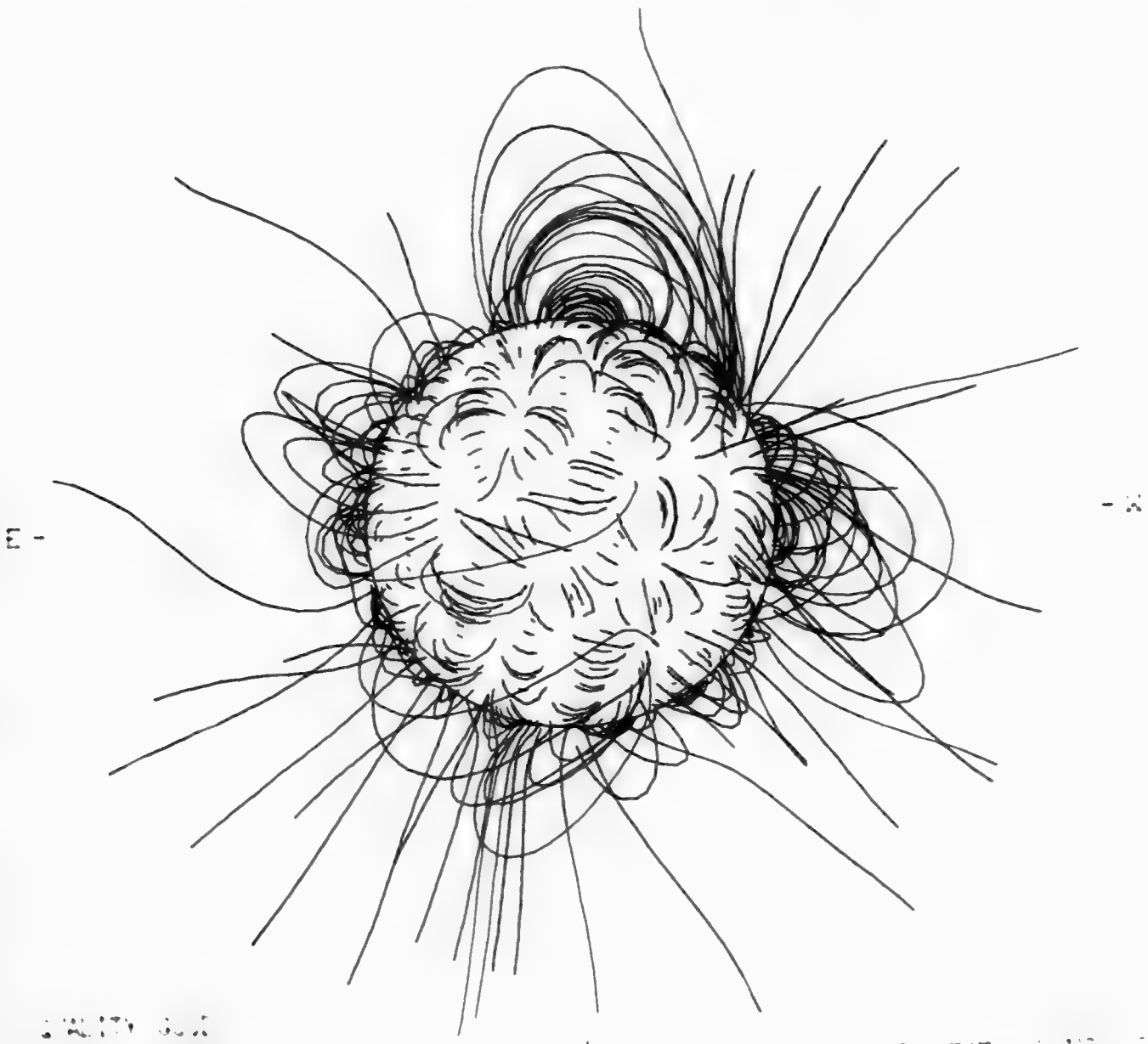


QUALITY GOOD
POLES DIRECT
DATA WINDOW 1543.4"

S

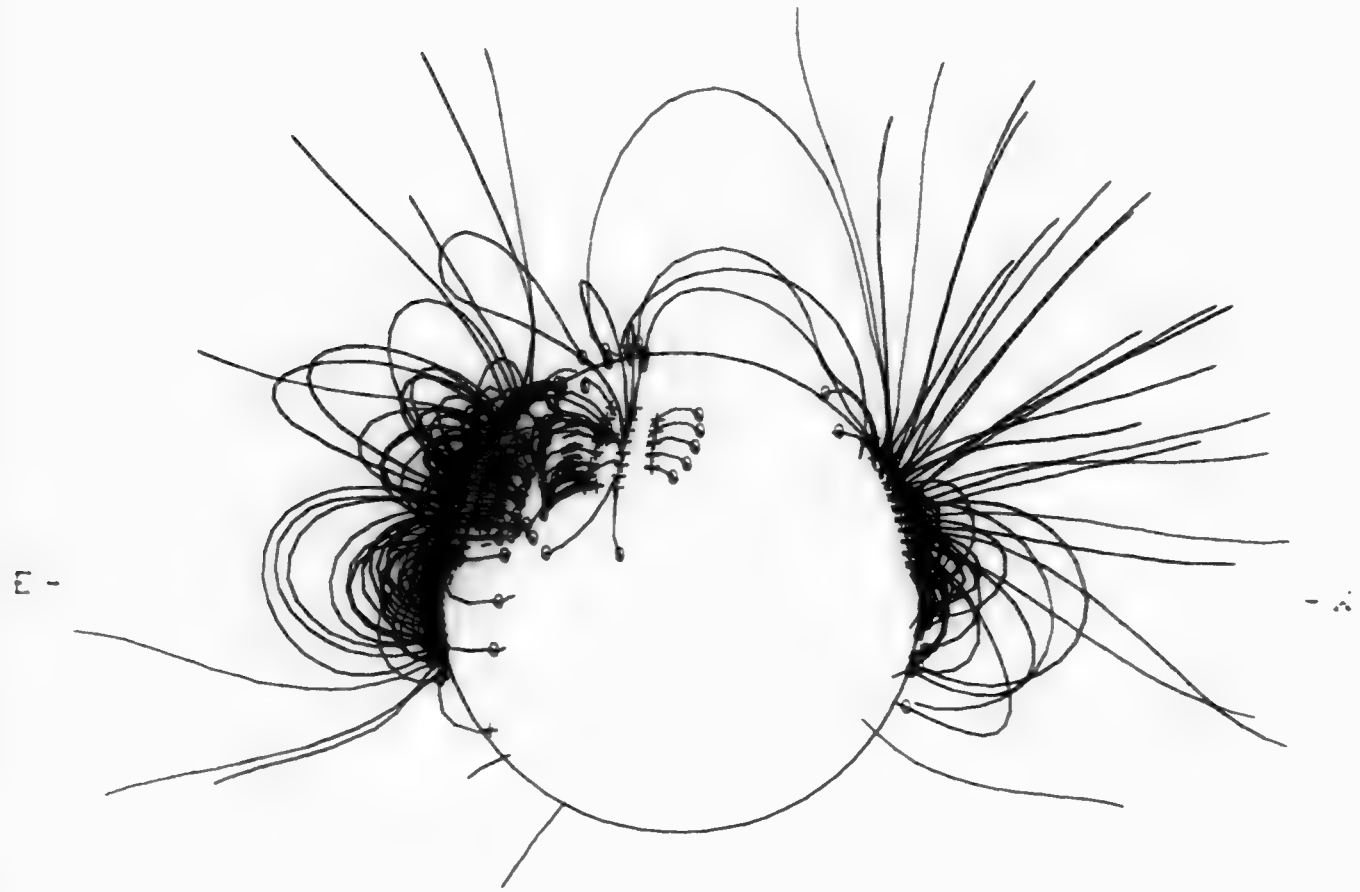
ROT. 1543 LON. 51°
29.4 CR 1965

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



POLES DIRECT

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

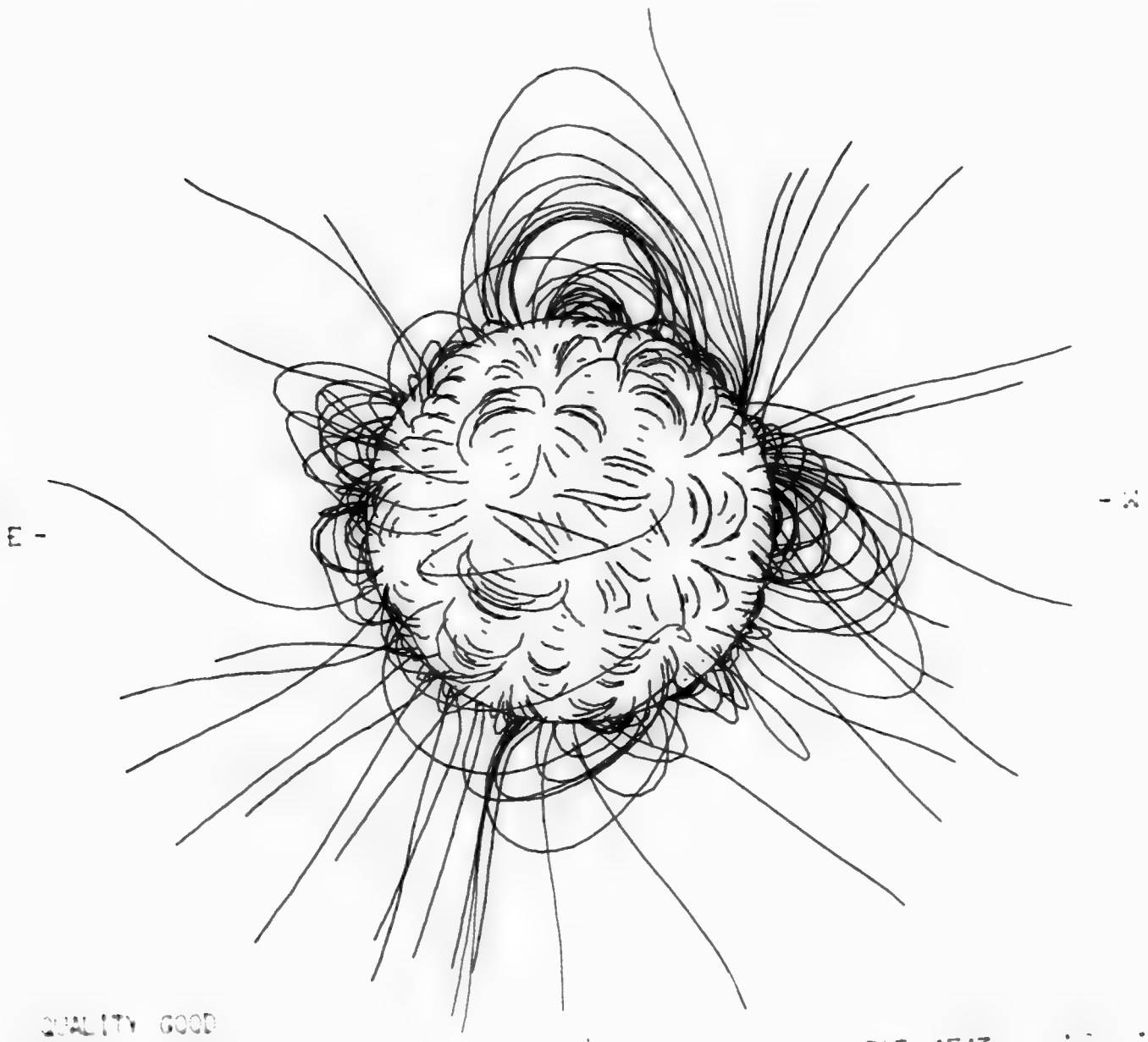


[illegible]

RULES DIRECT

[illegible]

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

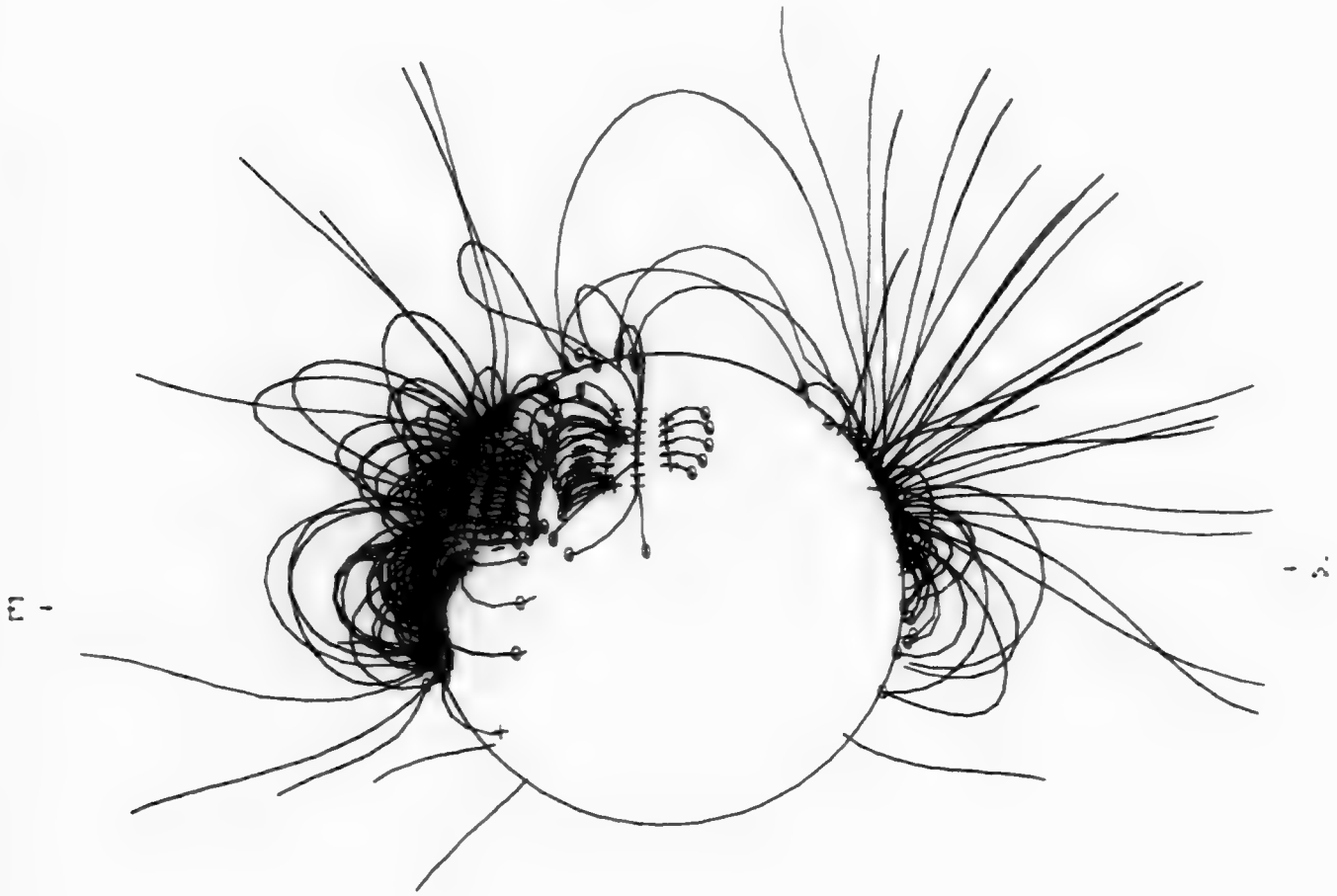


QUALITY GOOD

POLES DIRECT

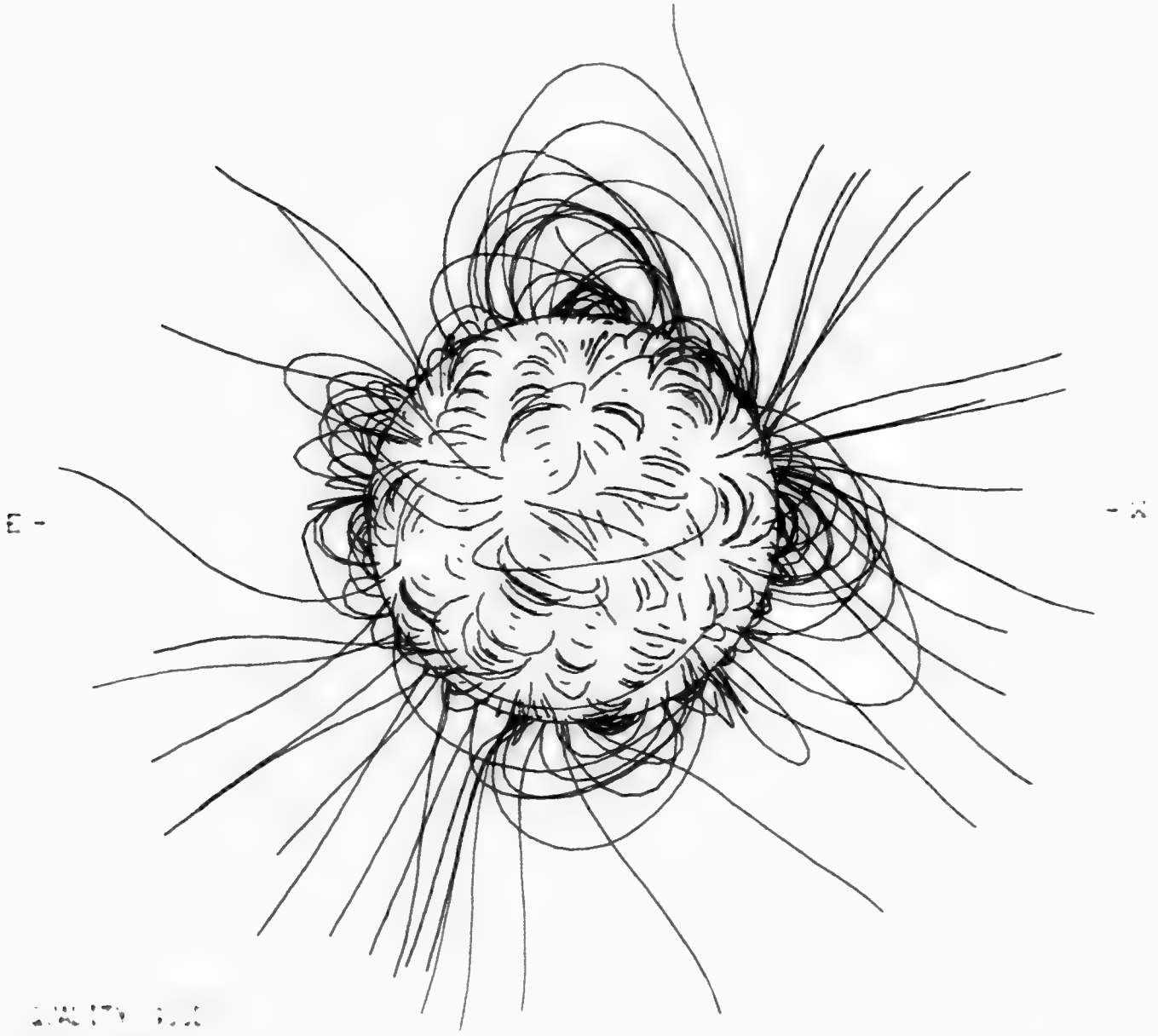
DATA WINDOW 15:43:47

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

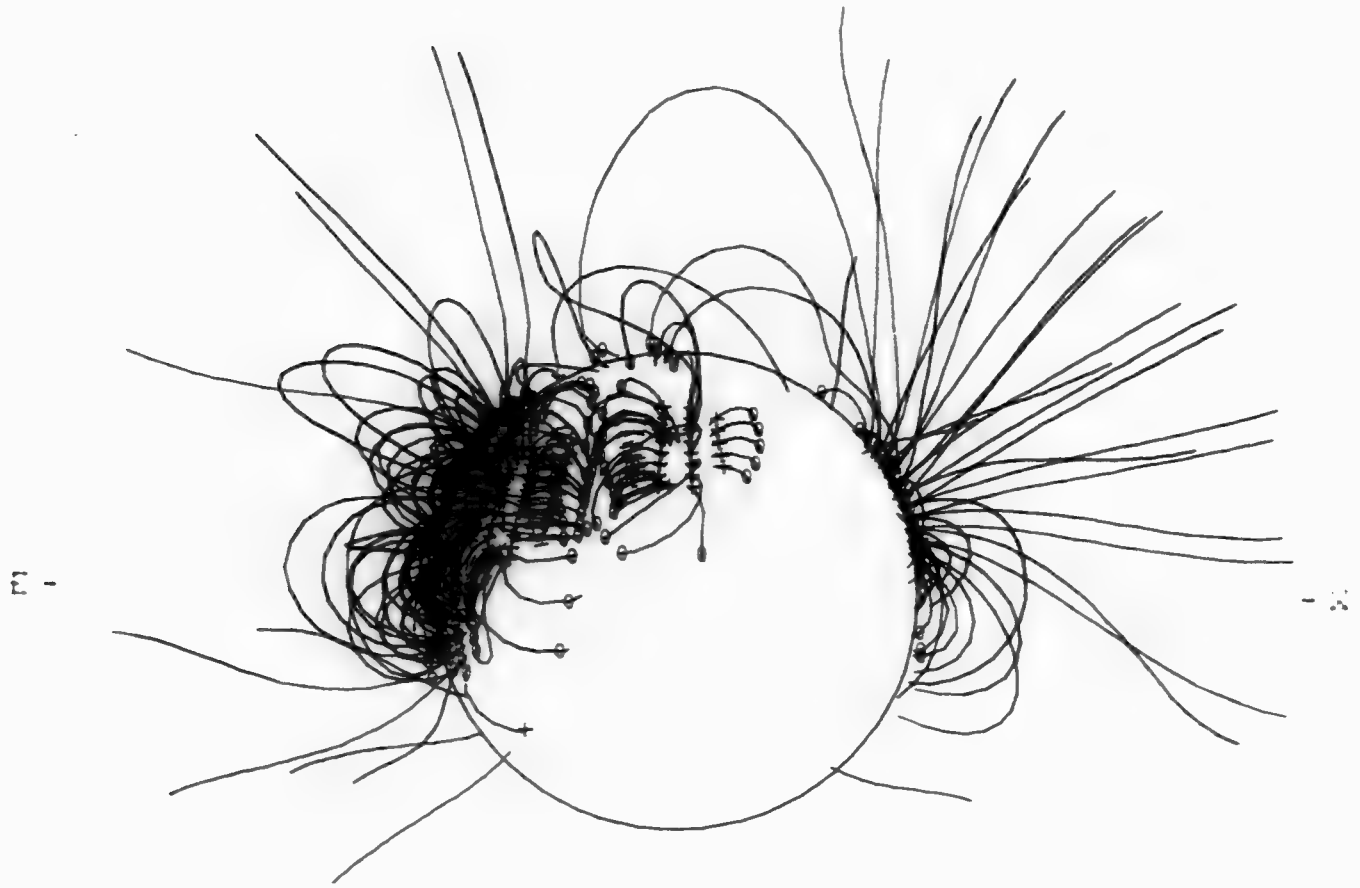


POLES DIRECT

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

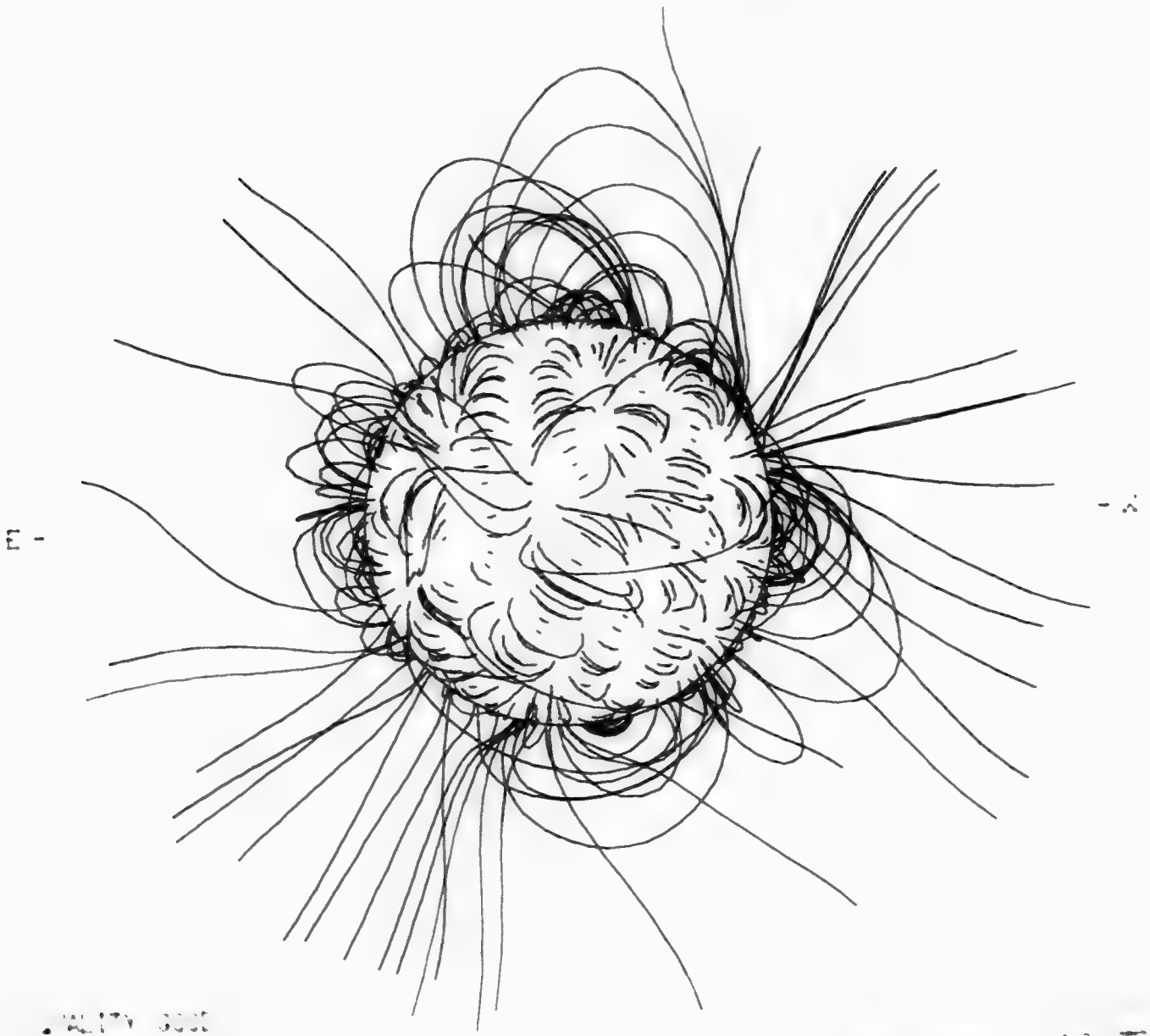


HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



POLES DIRECT

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



QUALITY GOOD

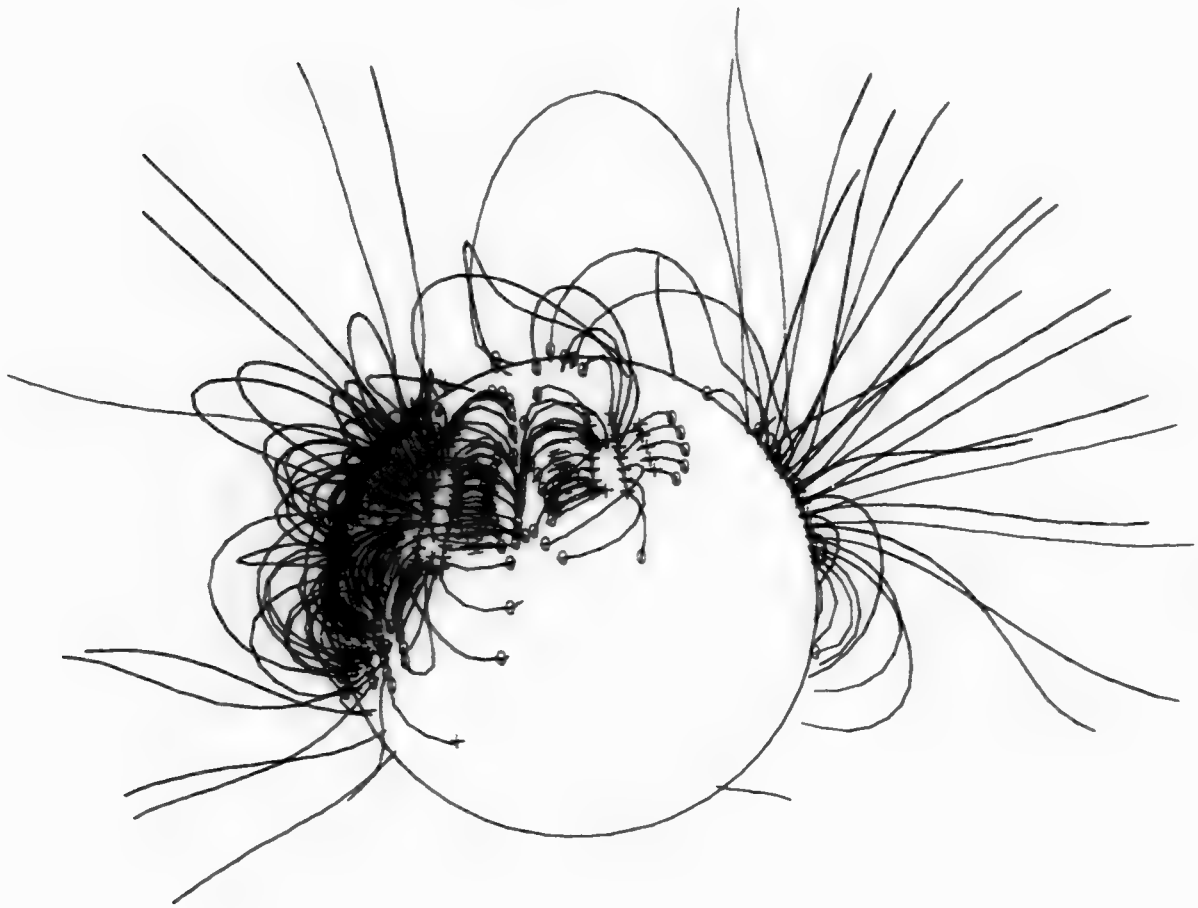
RULES DIRECT

DATA ACQUIRED 1543.47

ROT. 1544 [illegible]°

14 FEB 1969

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

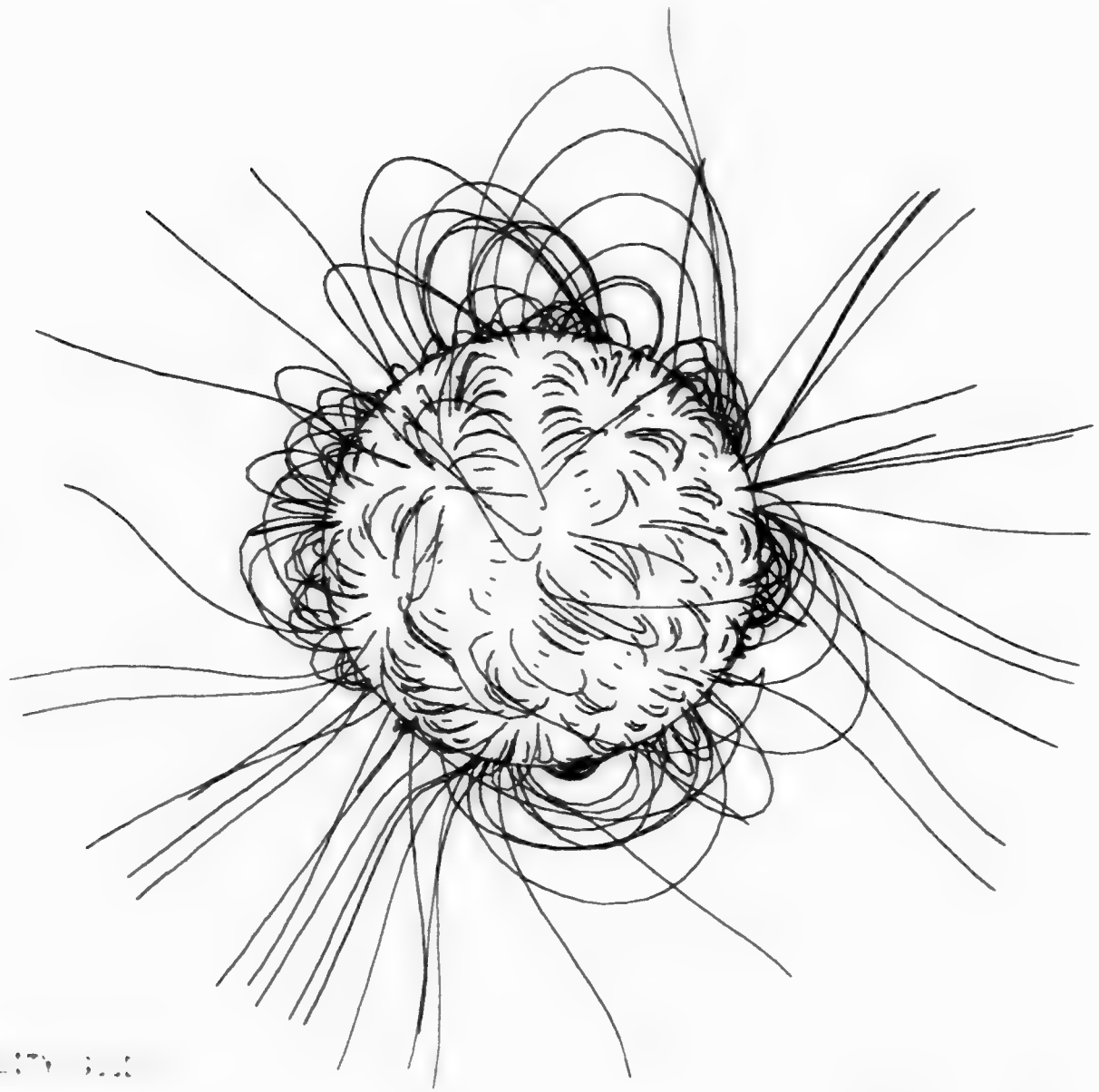


POLES DIRECT

DATA WINDOW 1543.4"

S

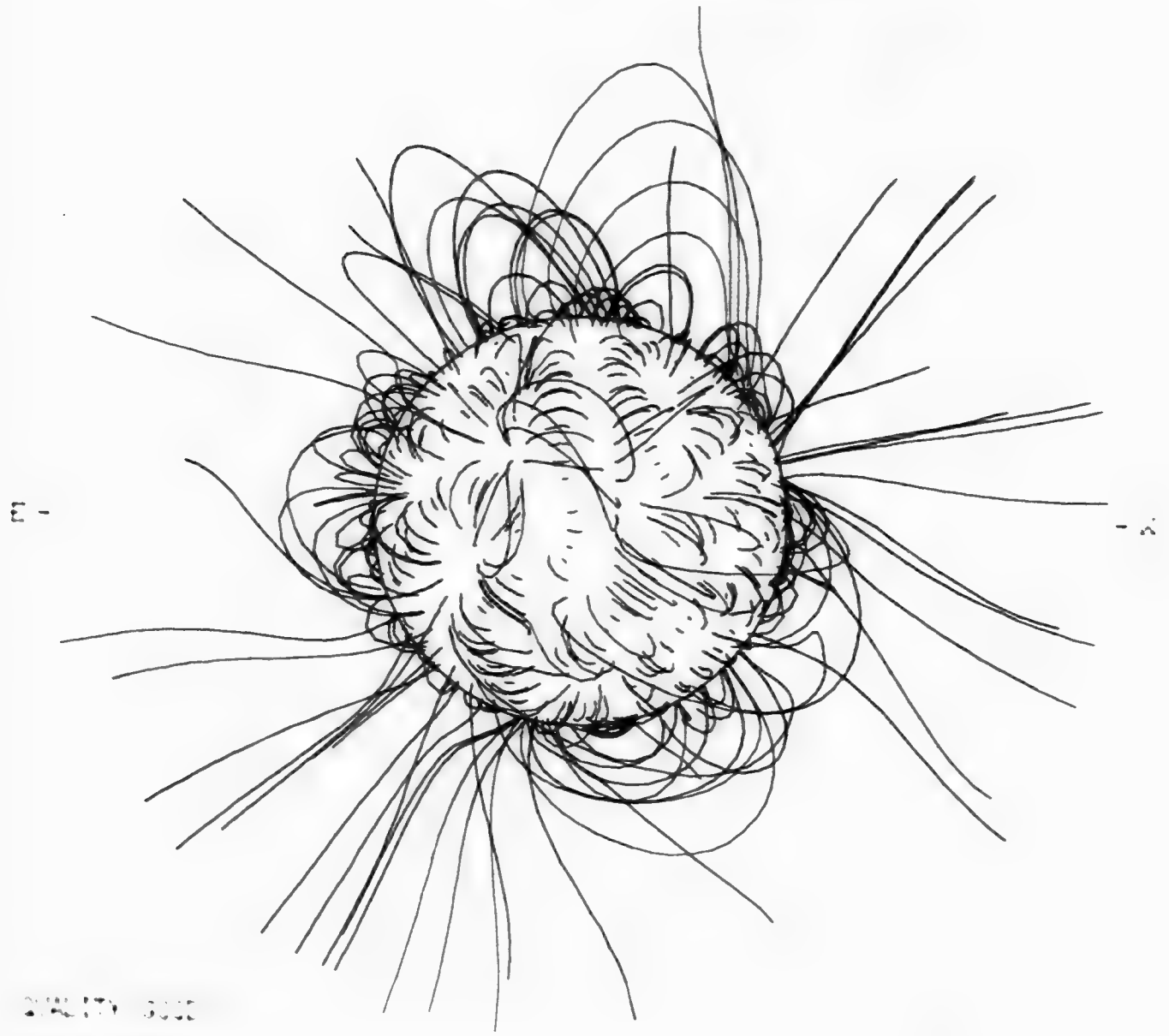
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



POLES DIRECT

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



QUALITY GOOD

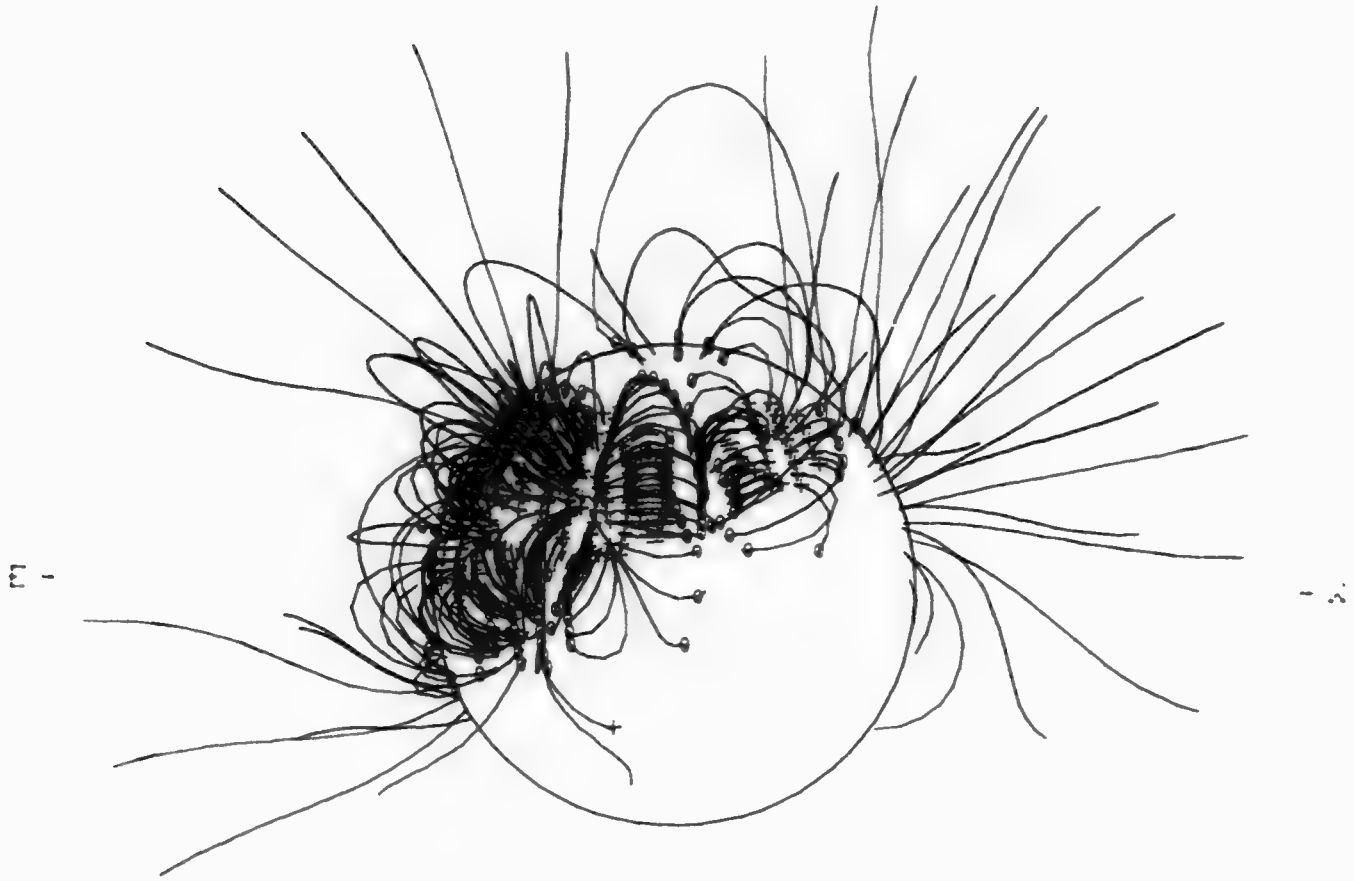
FILES DIRECT

DATA ANALYSIS 1543.47

ROT. 1544 LONG. 55.0°

3.0 FEB 1964

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

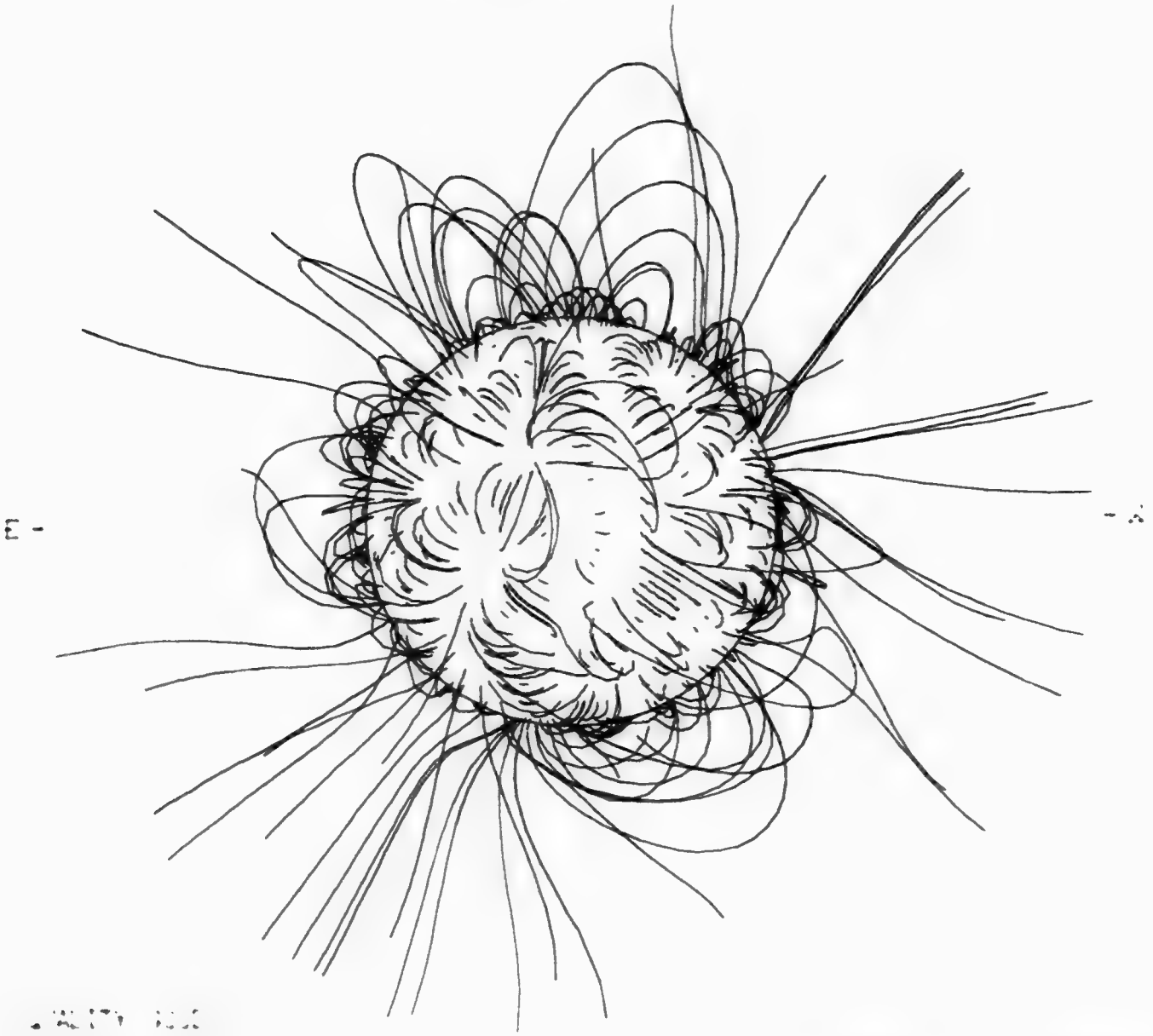


QUALITY GOOD

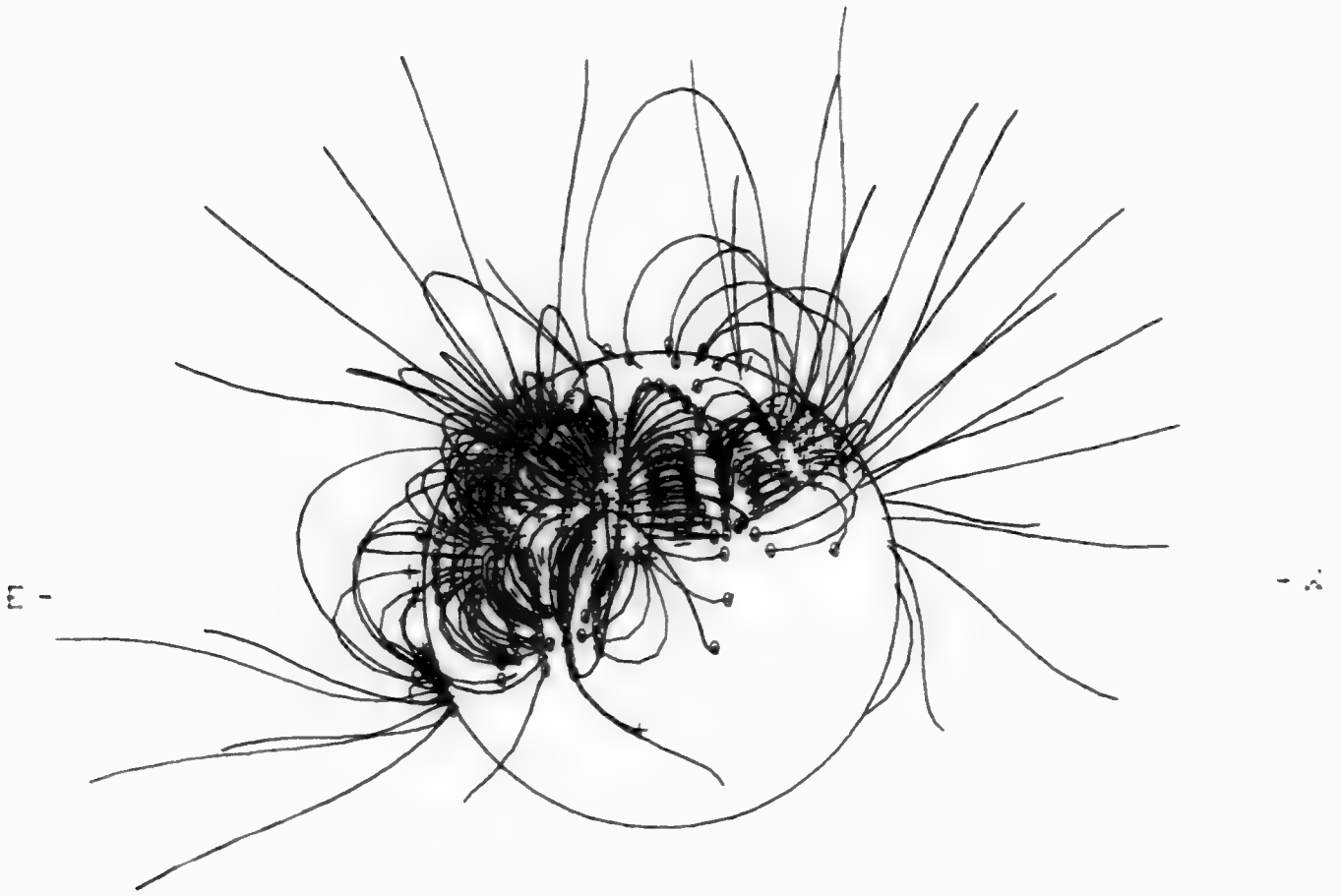
POLES DIRECT

DATA [illegible]

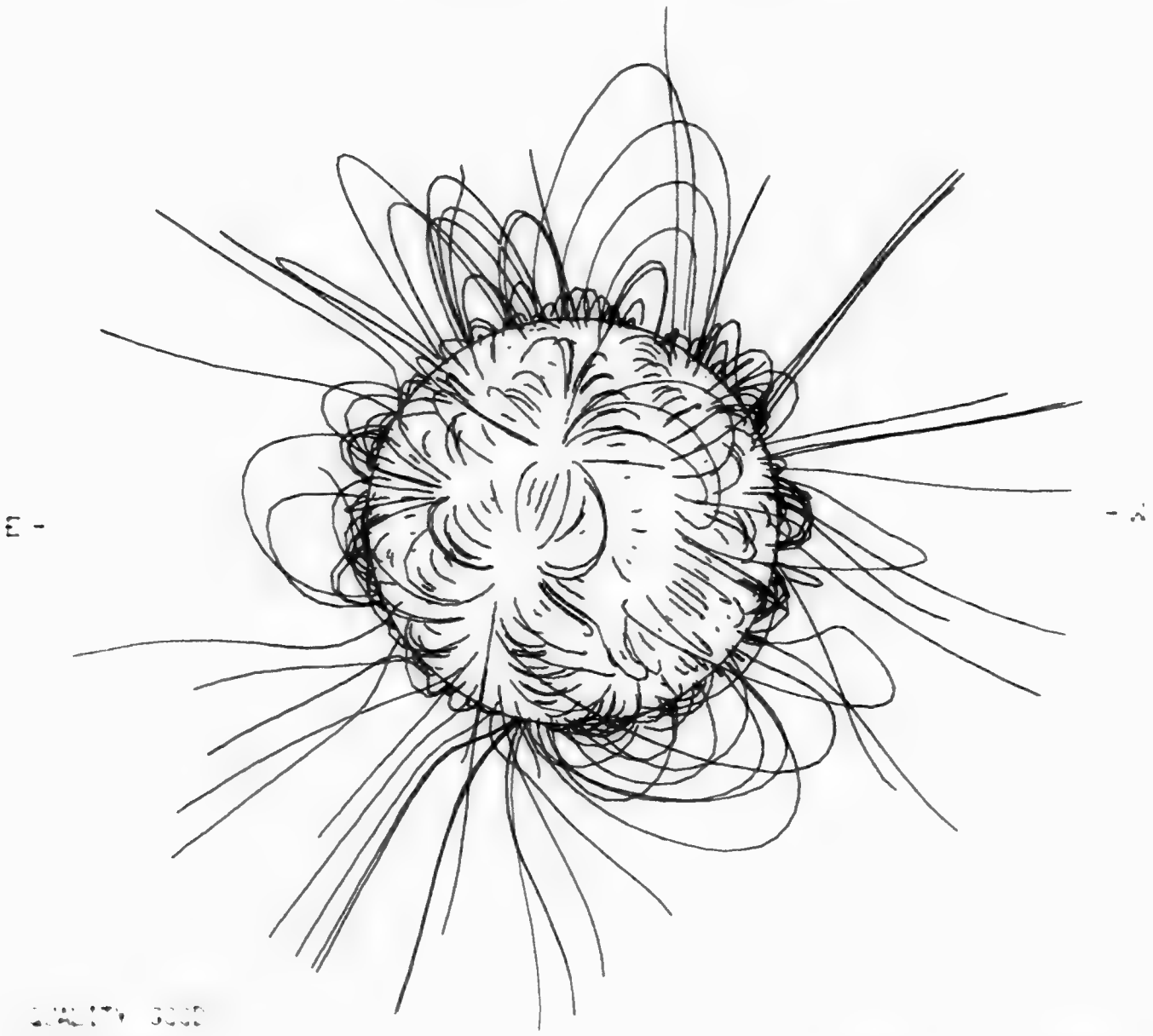
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



QUALITY GOOD

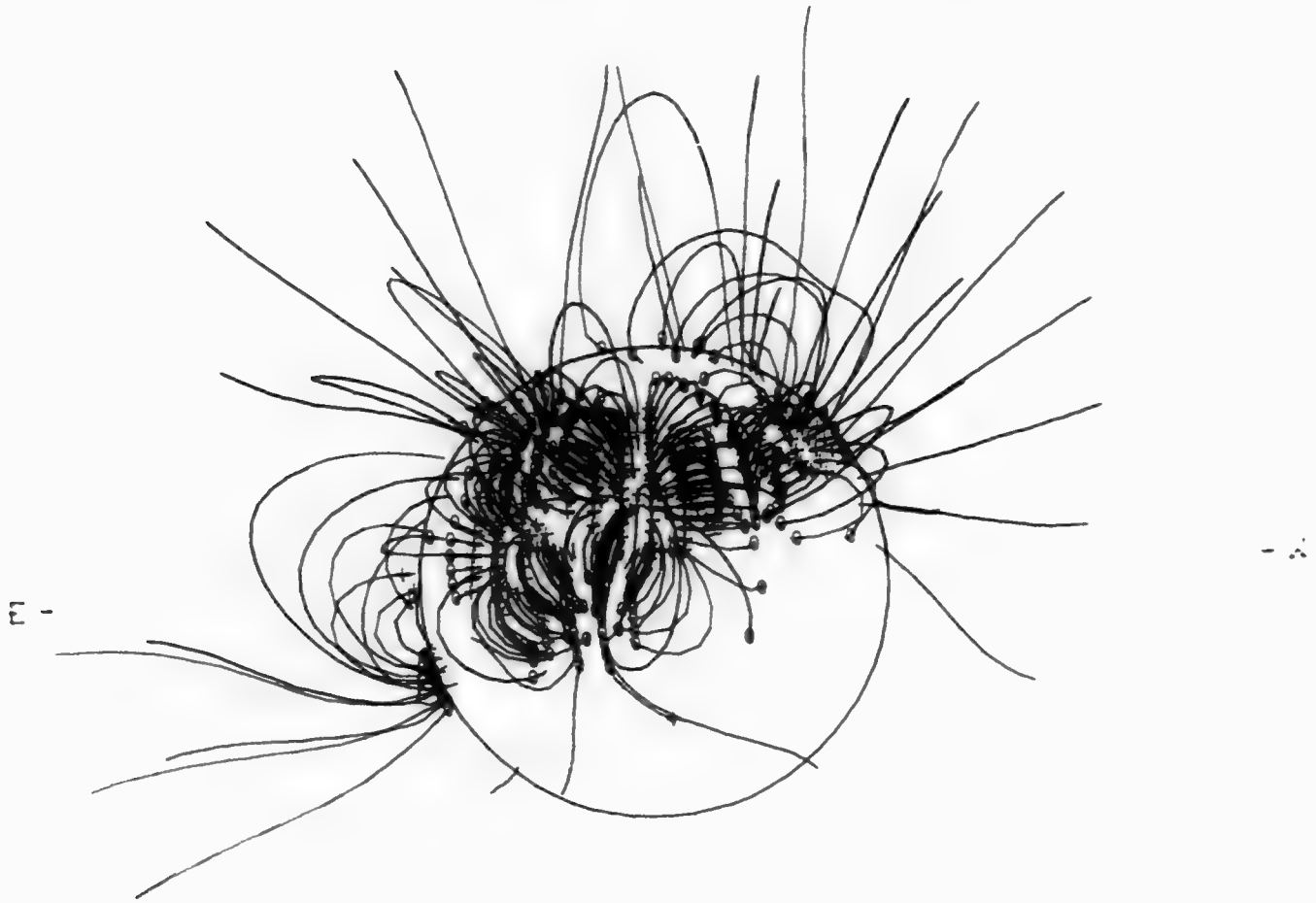
POLES DIRECT

DATA AVAILABLE 1543.47

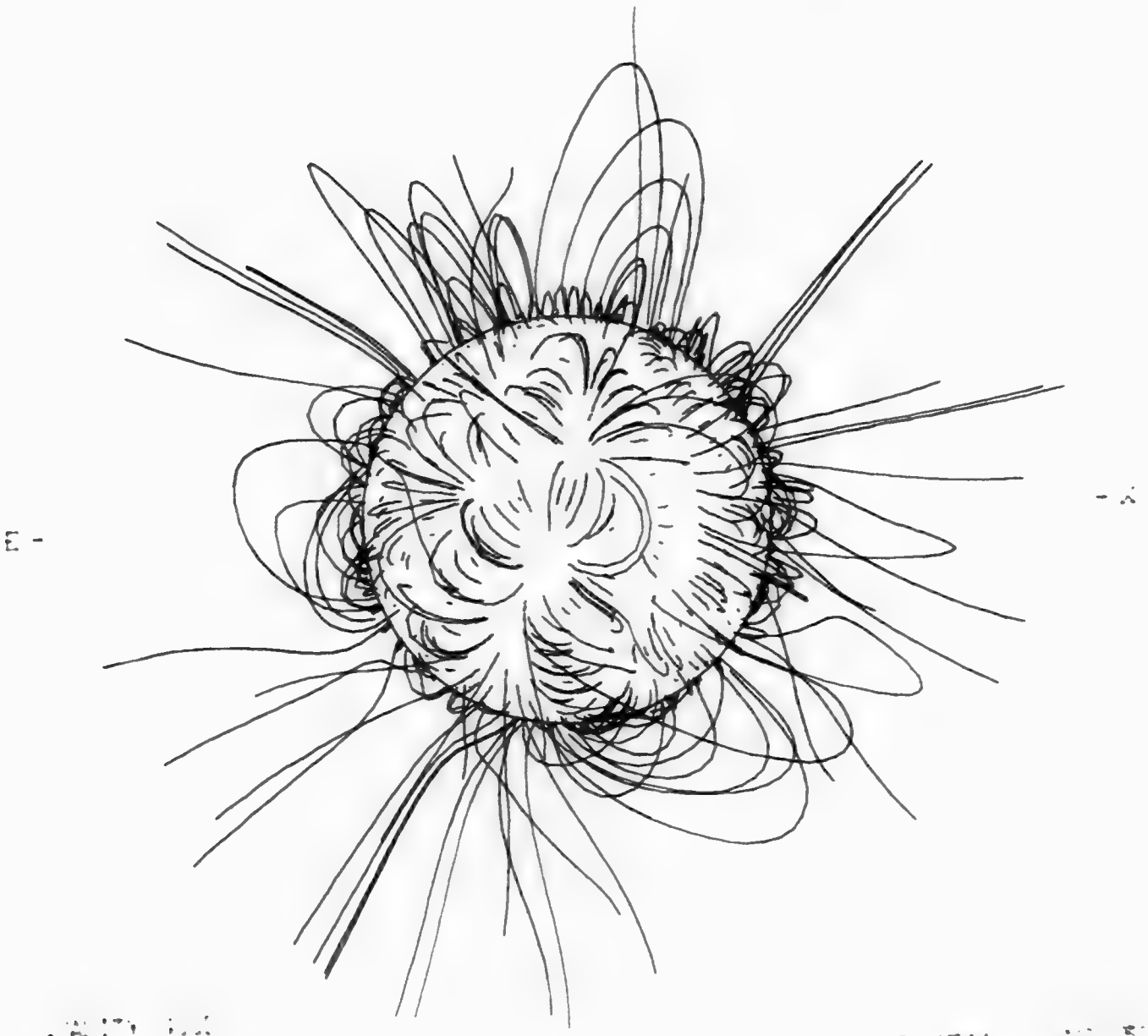
ROT. 1544 LONG. 5.0°

4.5 FEB 1964

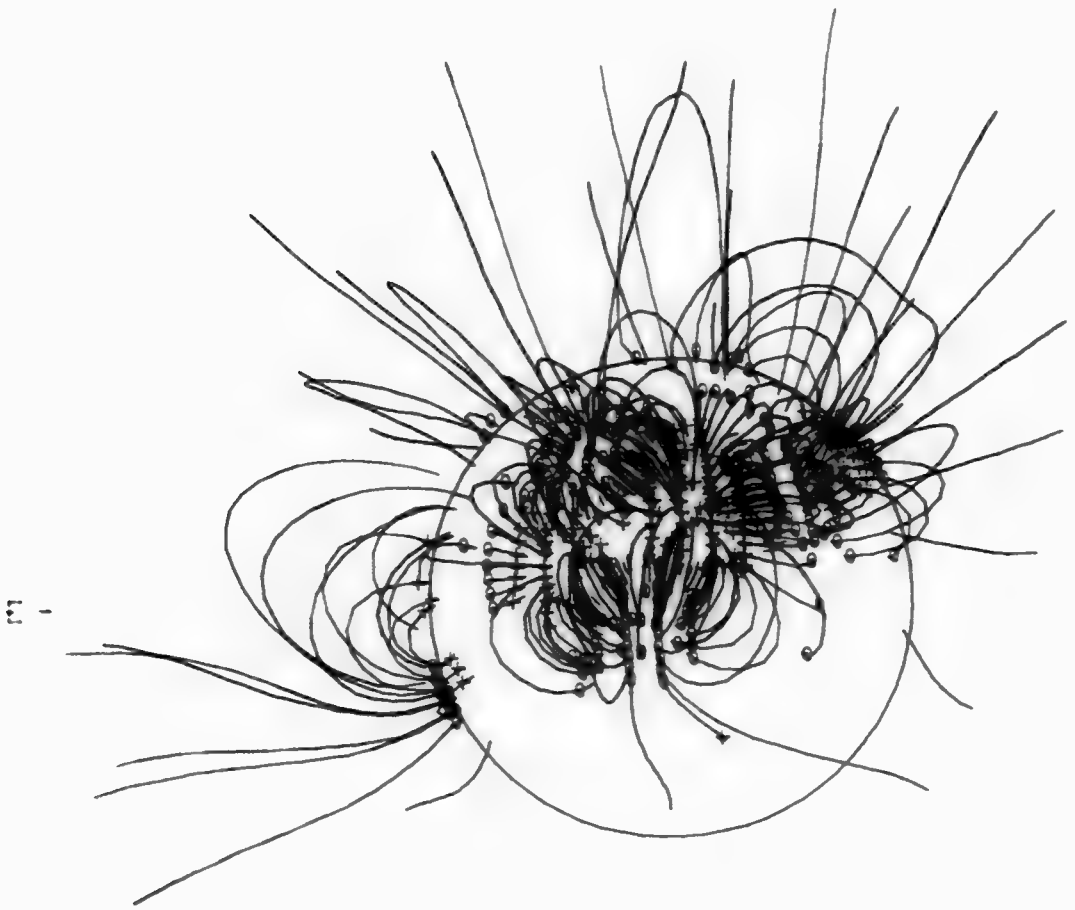
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



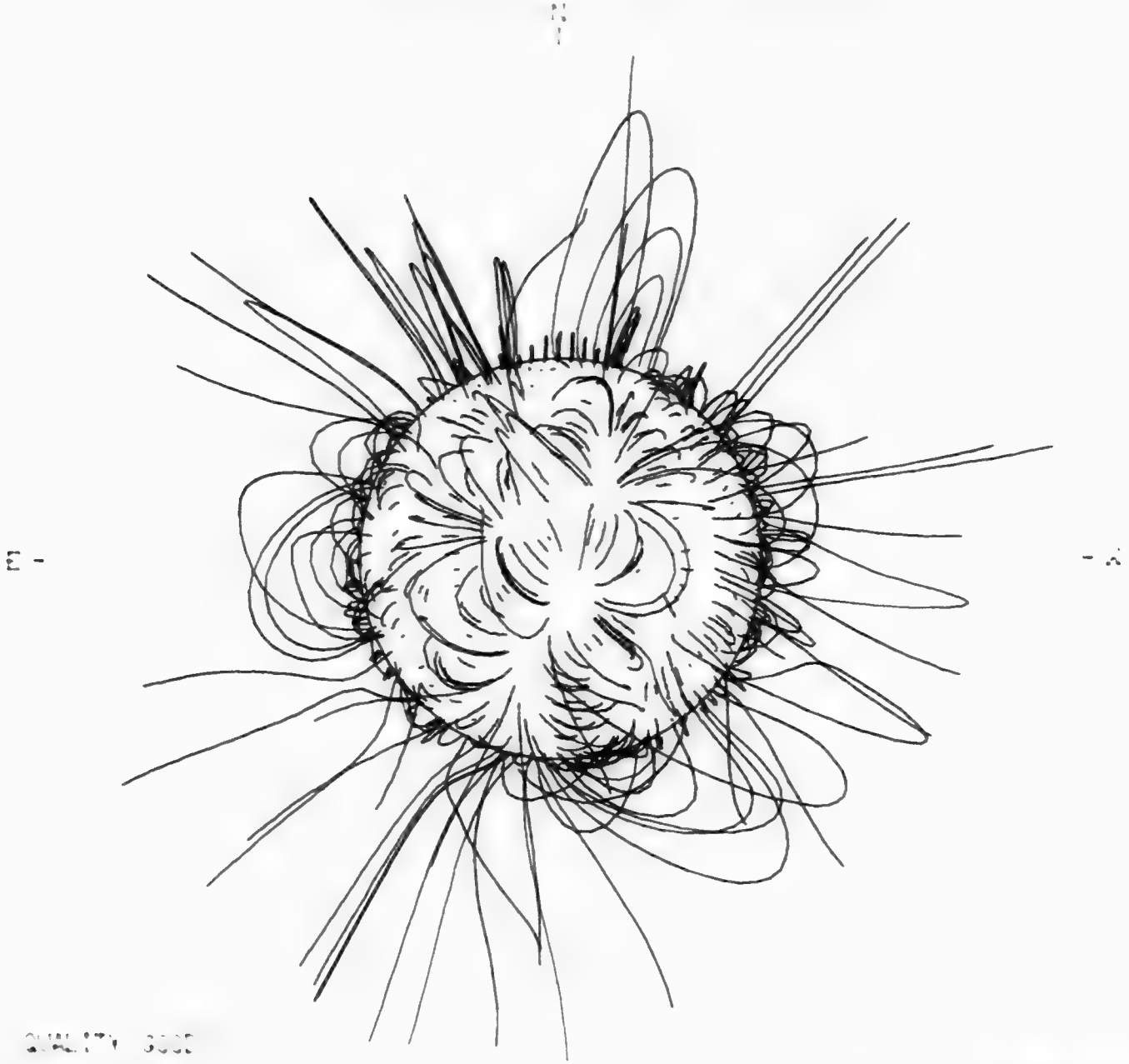
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



QUALITY 3000

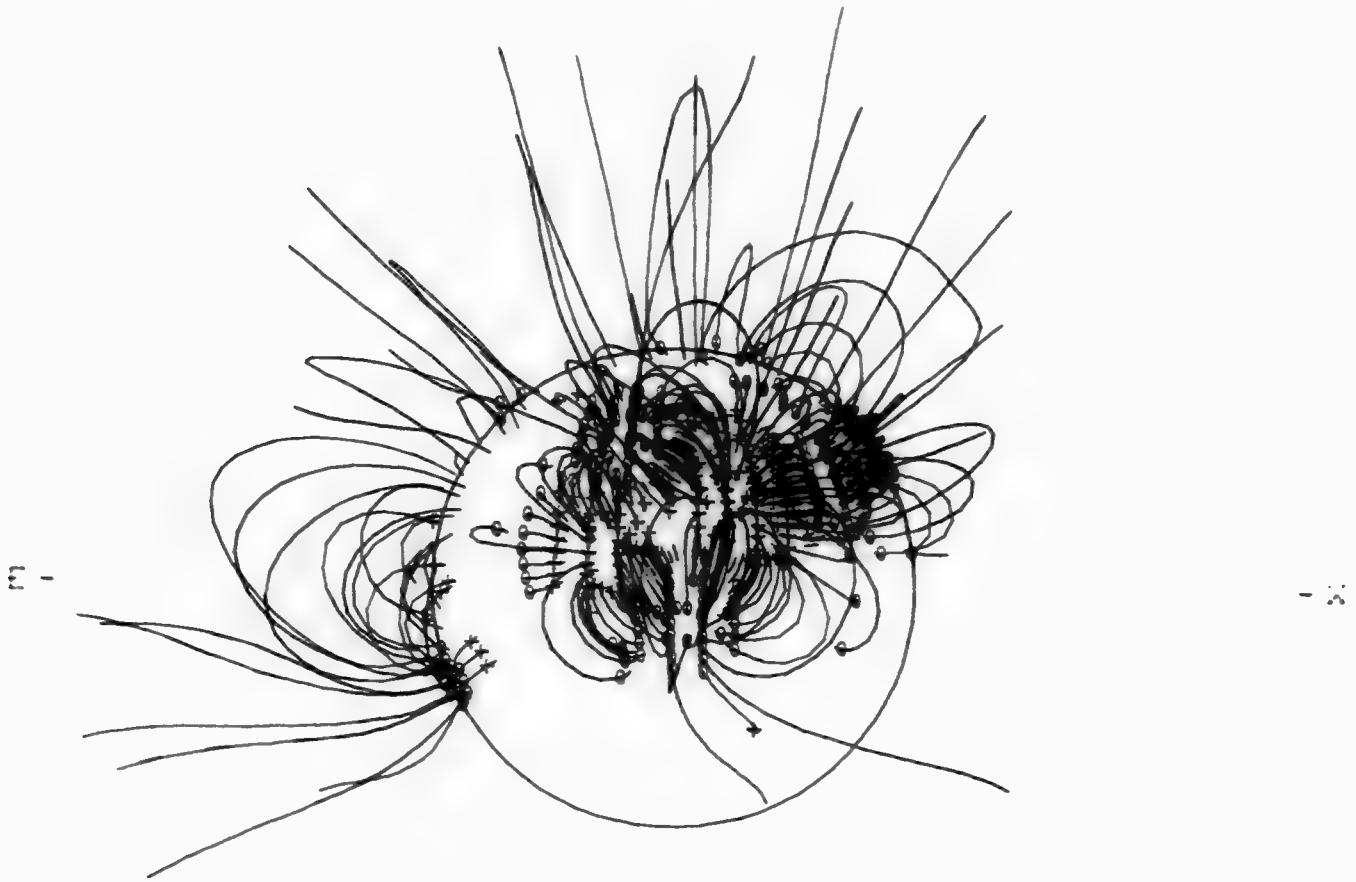
RULES DIRECT

DATA WINDOW 1543.47

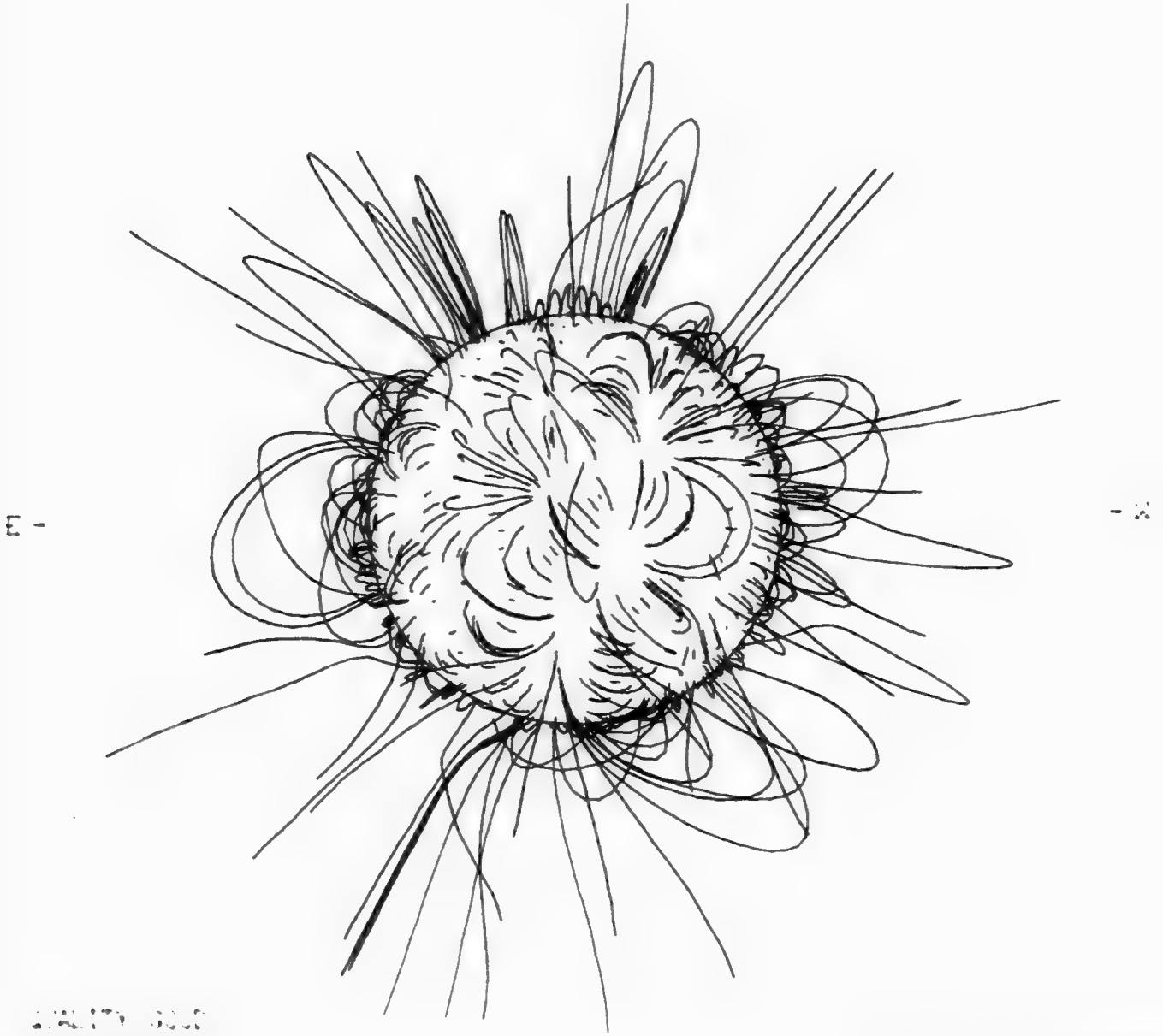
ROT. 1544 LONG. 241°

5.0 FEB

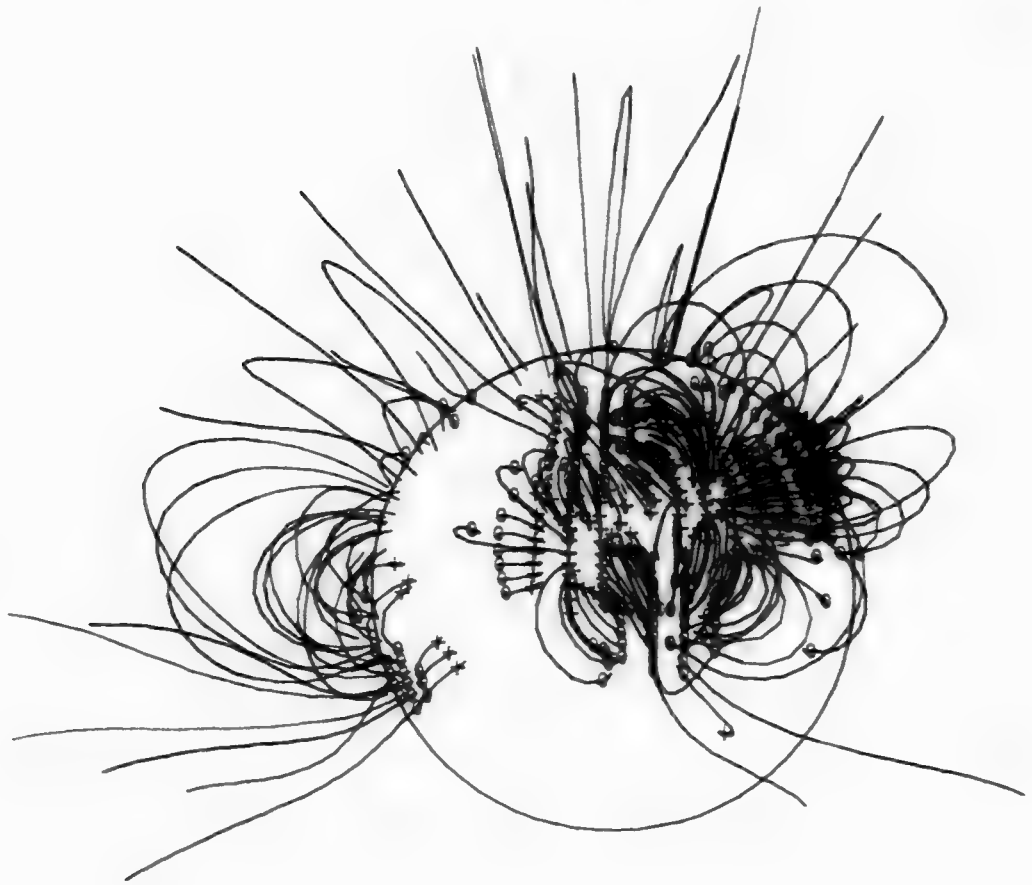
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

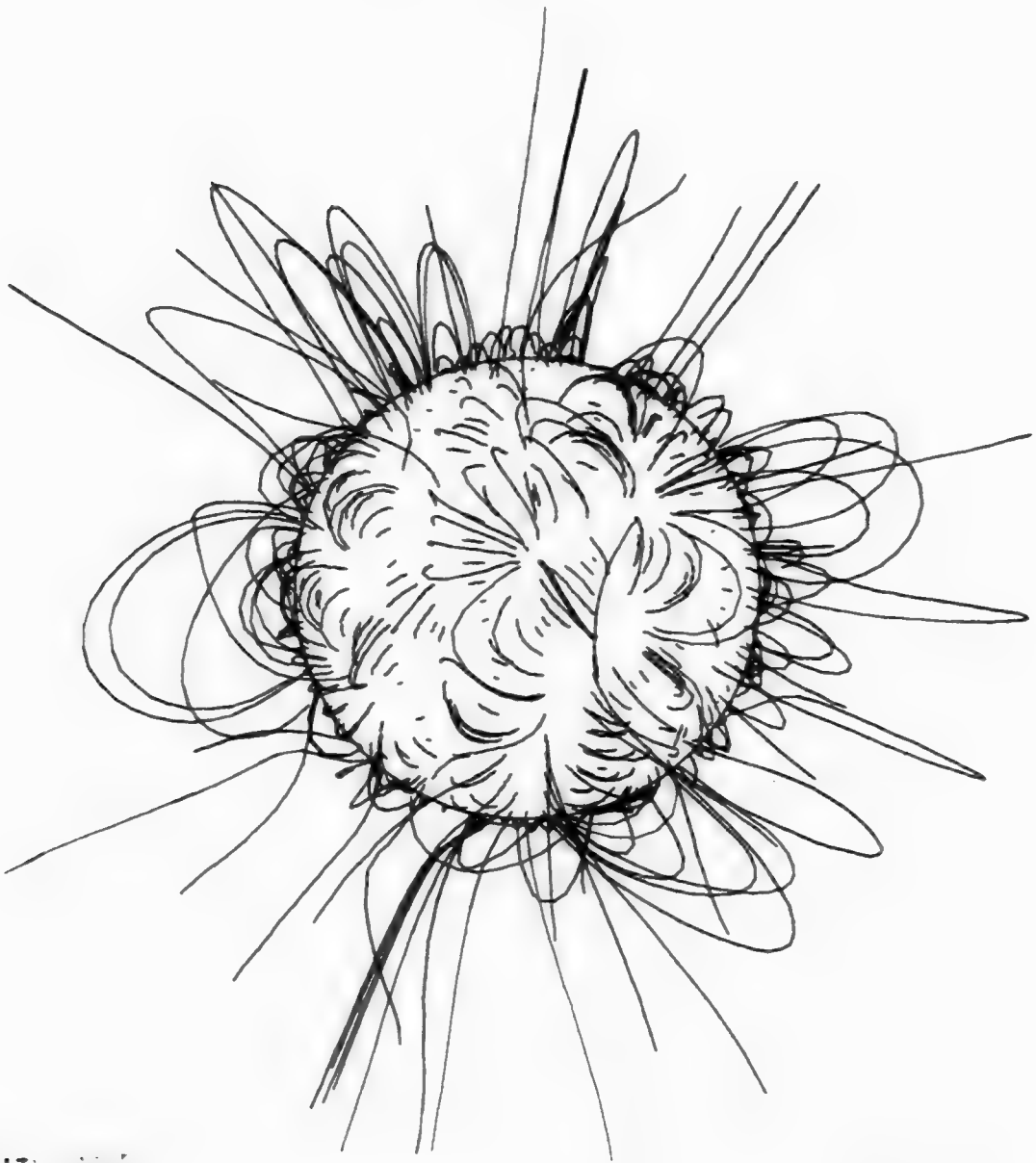


HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

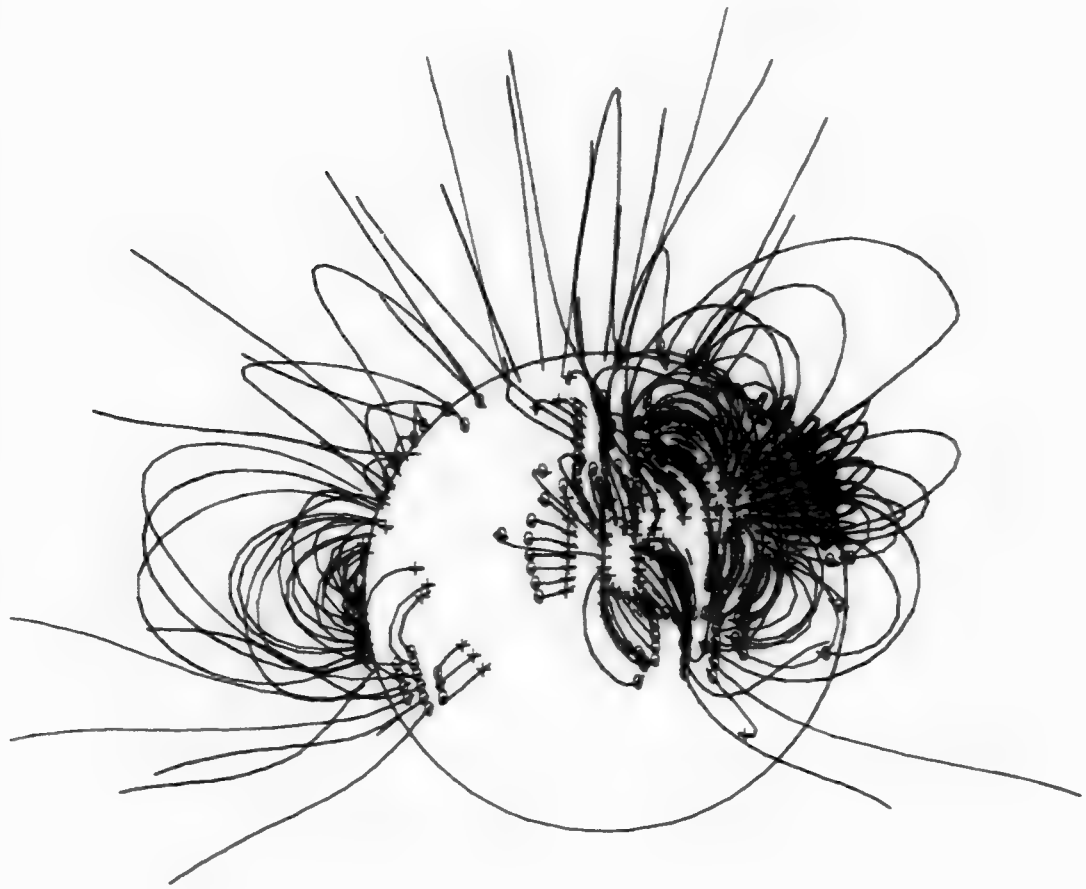


S

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



E -

- W

QUALITY GOOD

POLES DIRECT

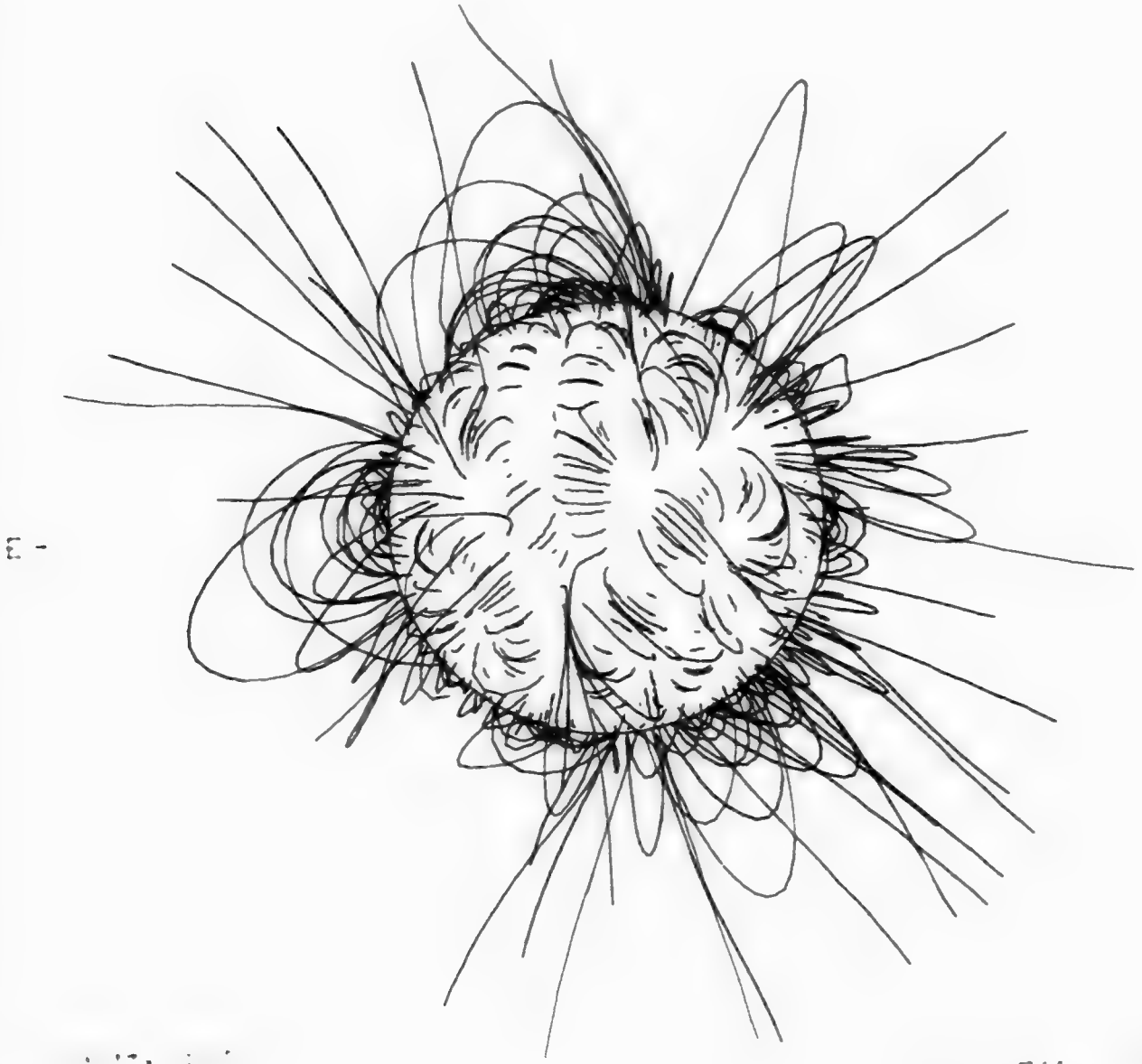
DATA WINDOW 1543.47

S

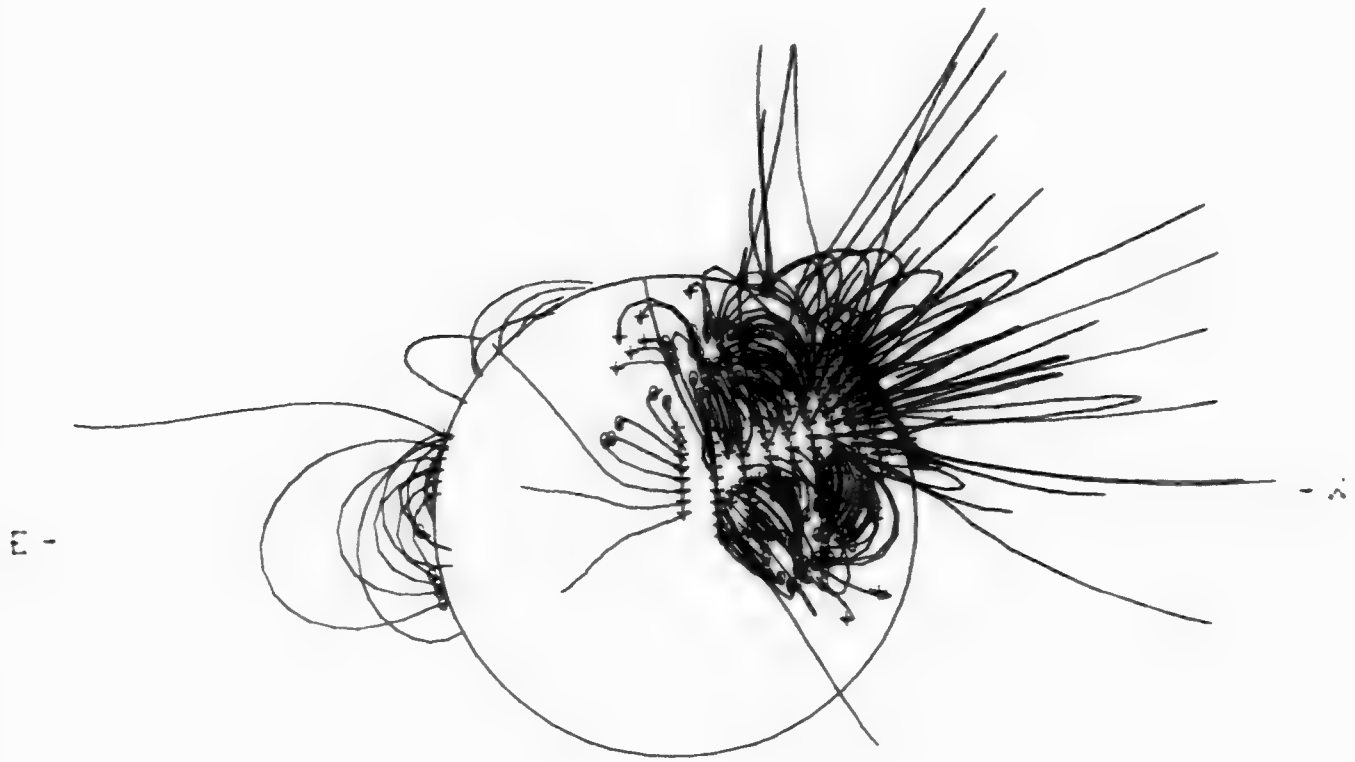
ROT. 1544 2013.27°

7.5 FEB 1969

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

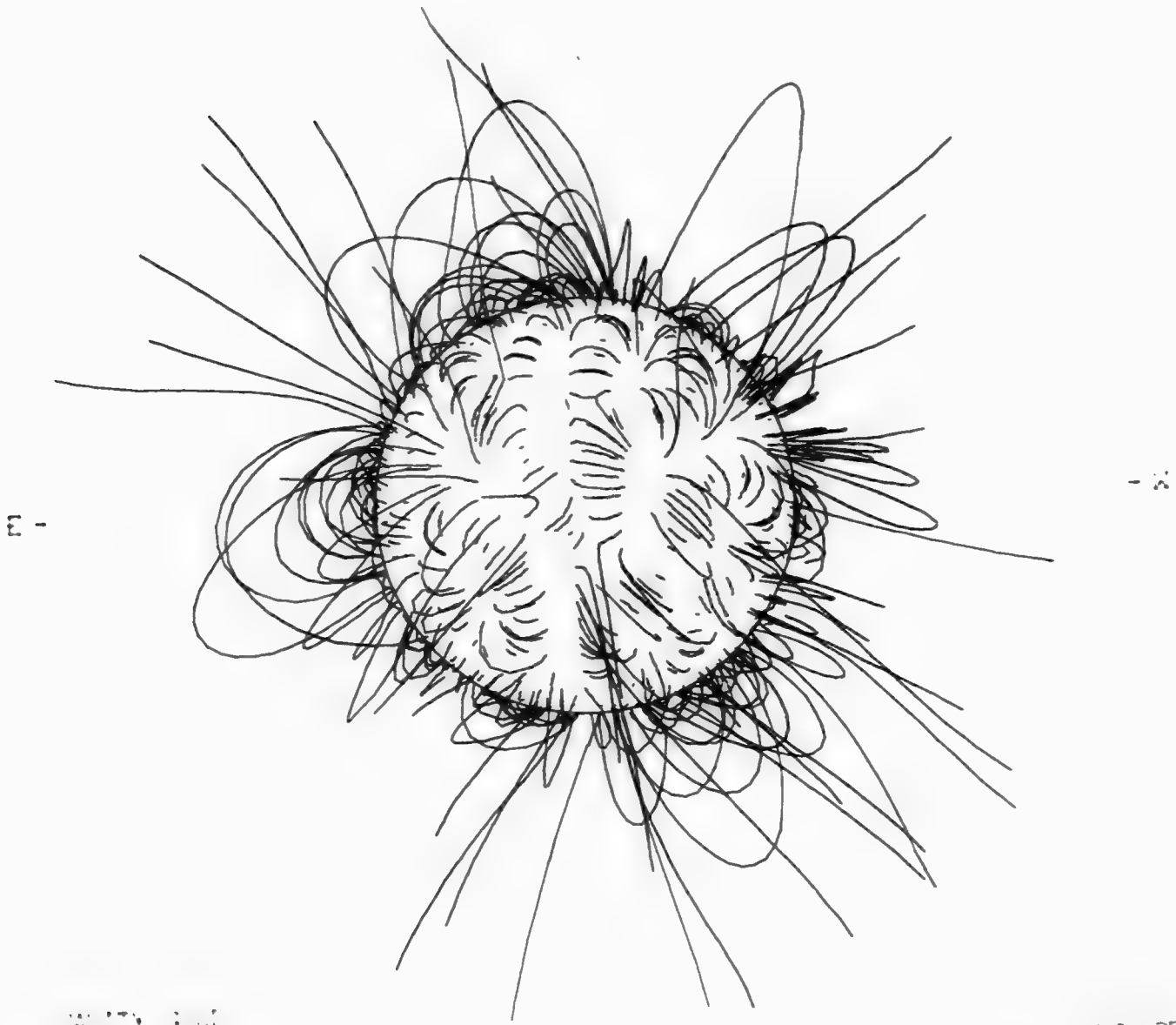


HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



8.5 FEB

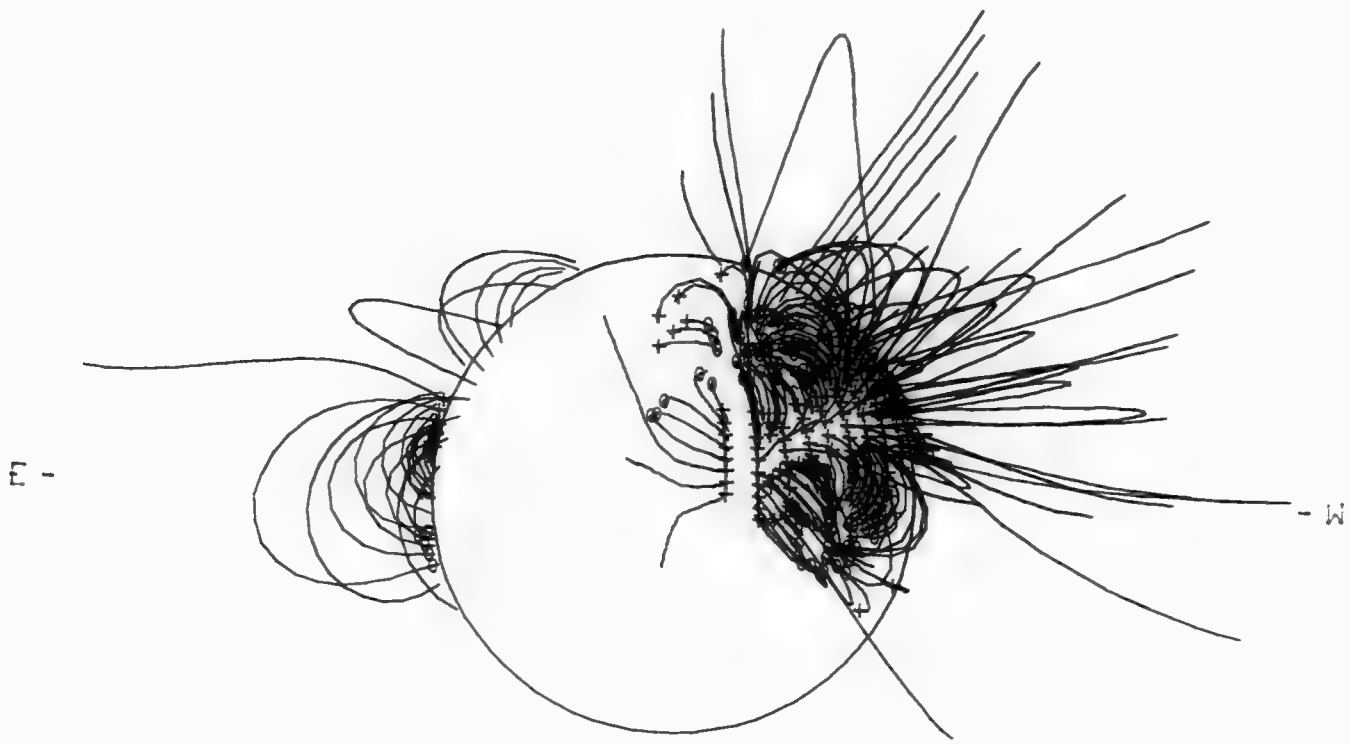
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



POLES DIRECT

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N



E -

- W

S

QUALITY GOOD

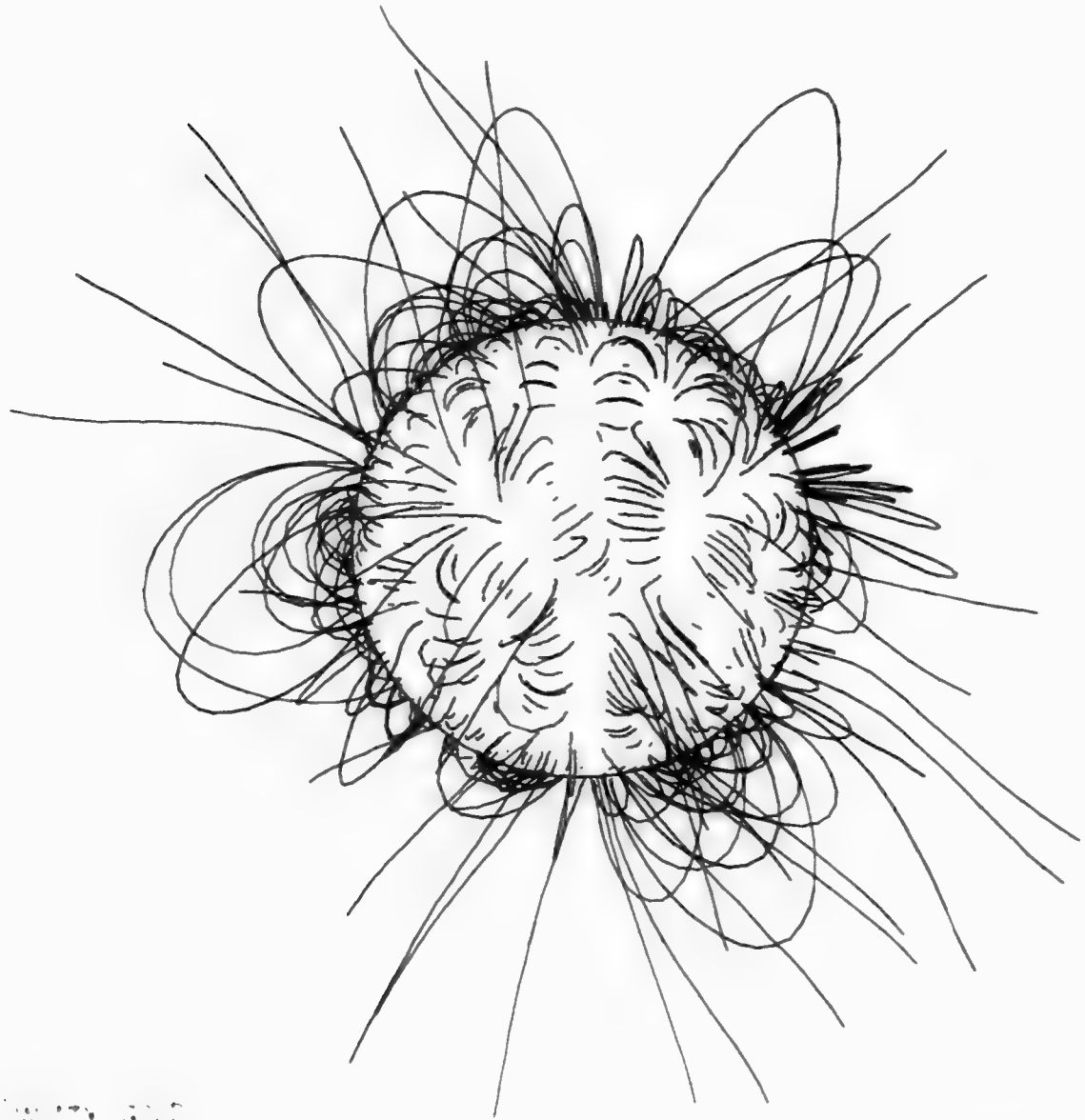
POLES DIRECT

DATA WINDOW 1544.00

R.T. 1544 L.N.S. 25°

9.1 FEB '69

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



E -

- A

QUALITY GOOD

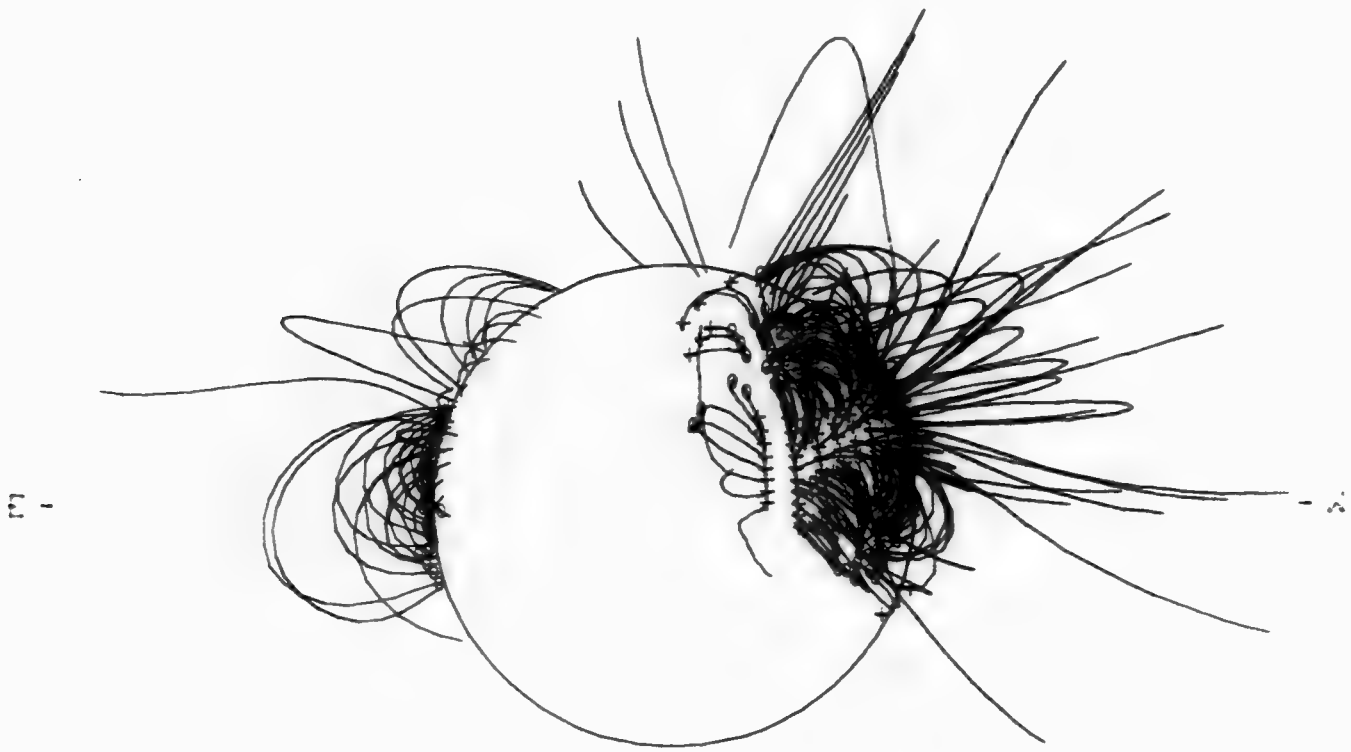
POLES DIRECT

DATA WINDOW 1544.00

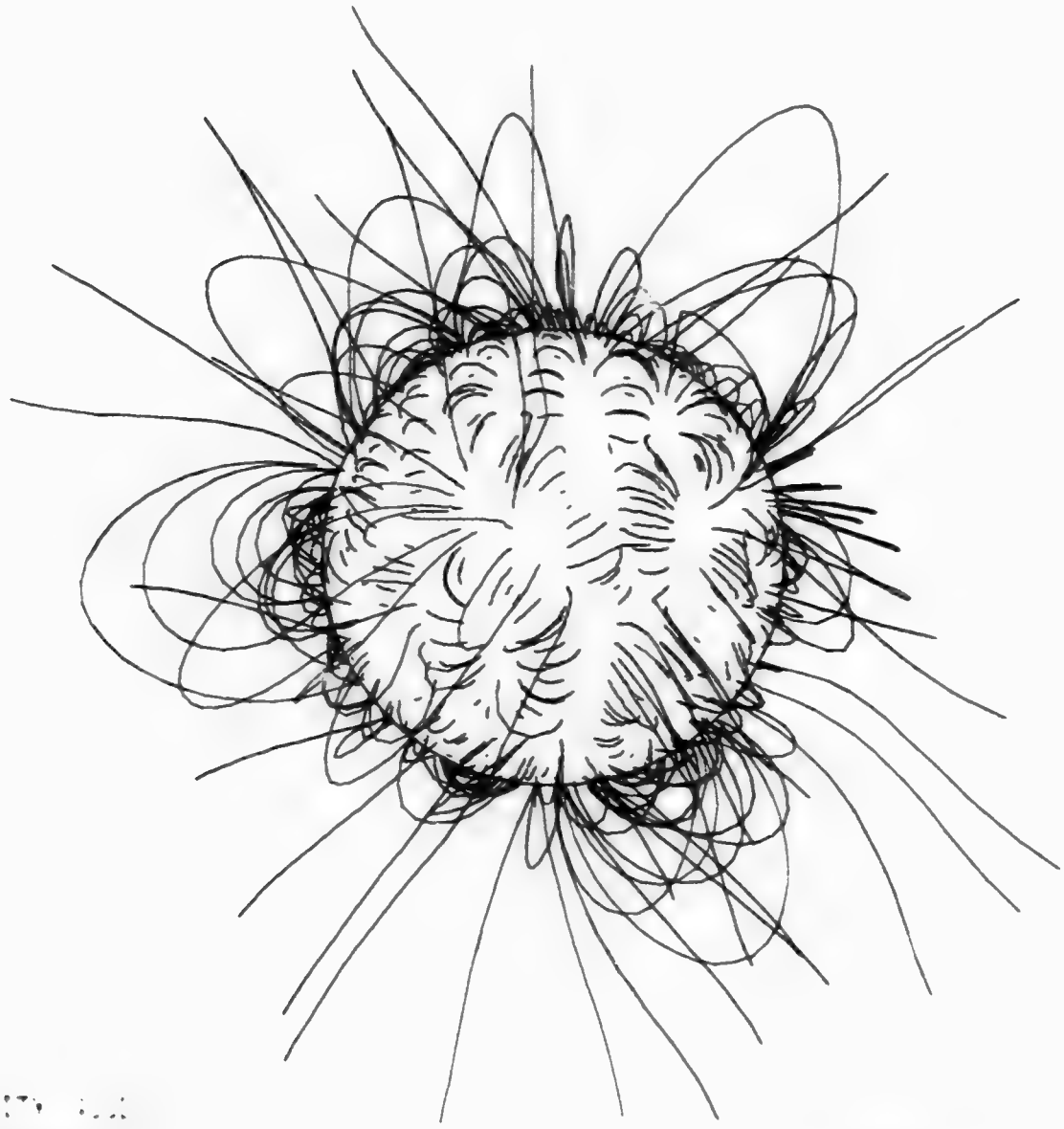
R.T. 1544 LONG. 240°

9.8 FEB 19[illegible]

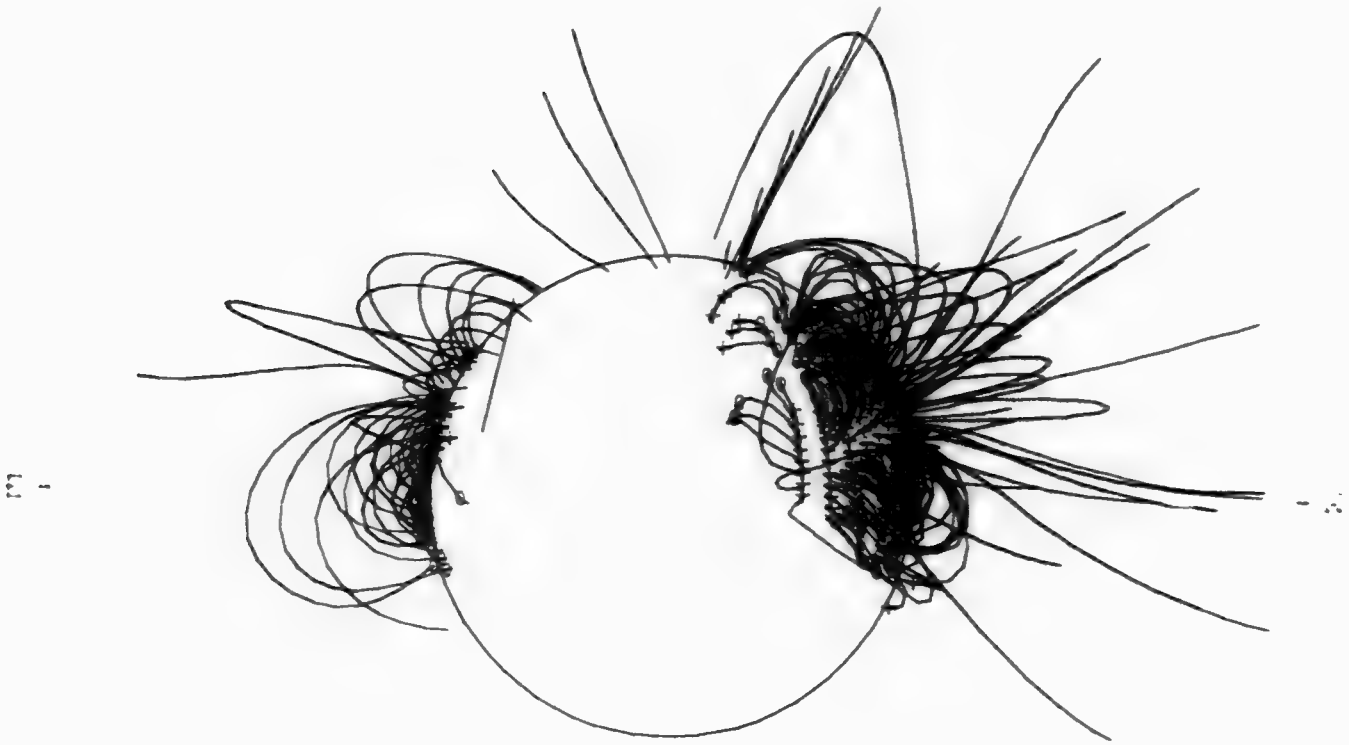
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



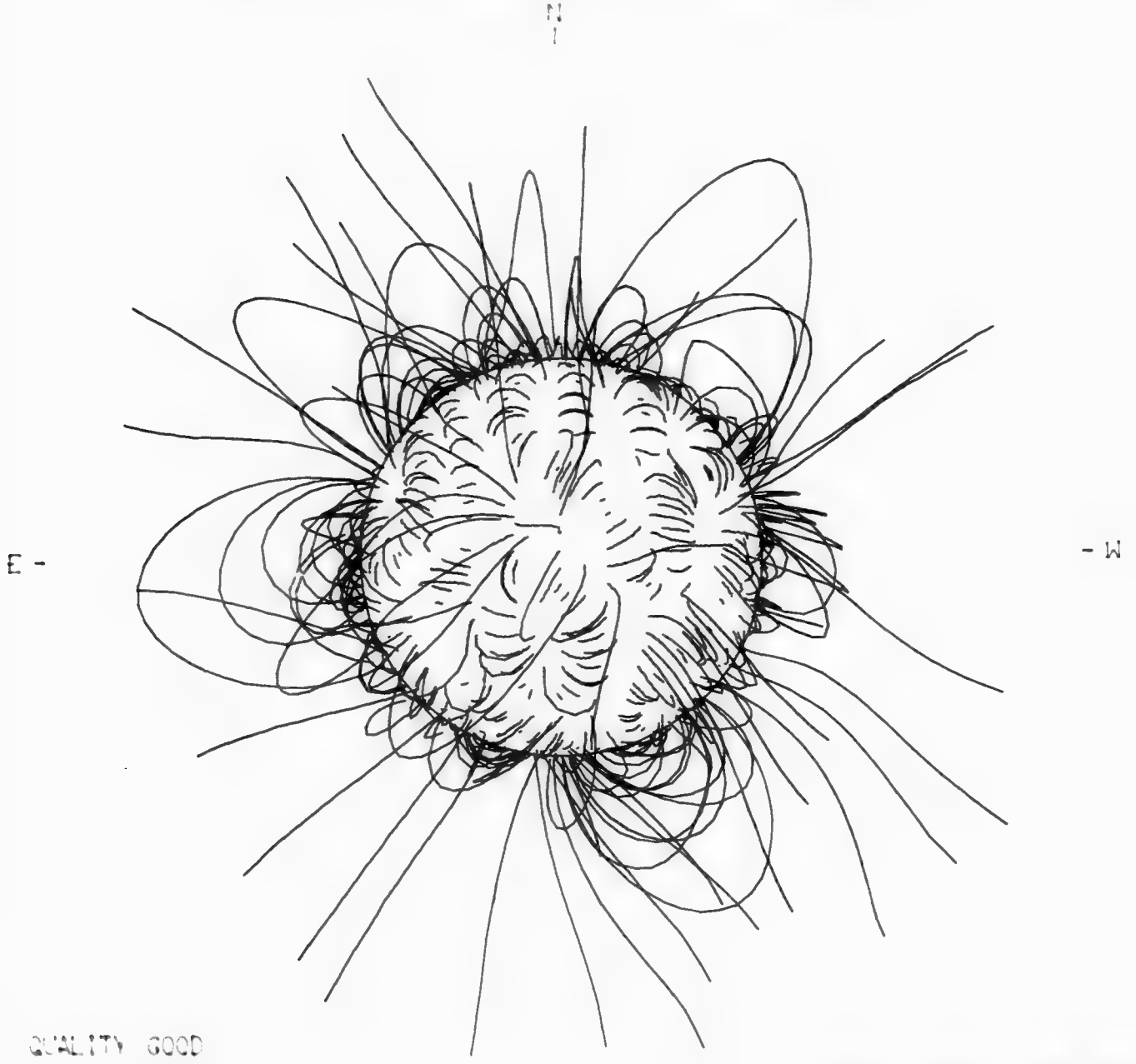
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



QUALITY GOOD

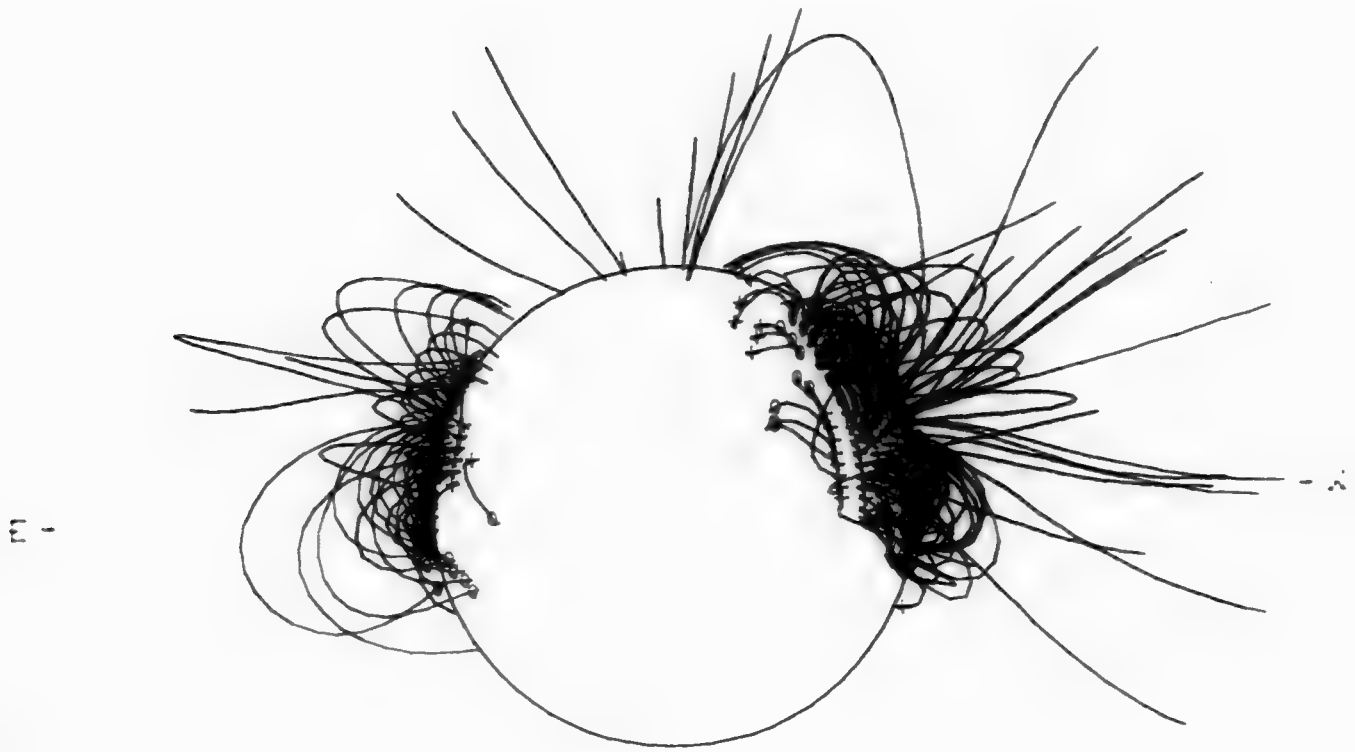
POLES DIRECT

DATA WINDOW 1544.00

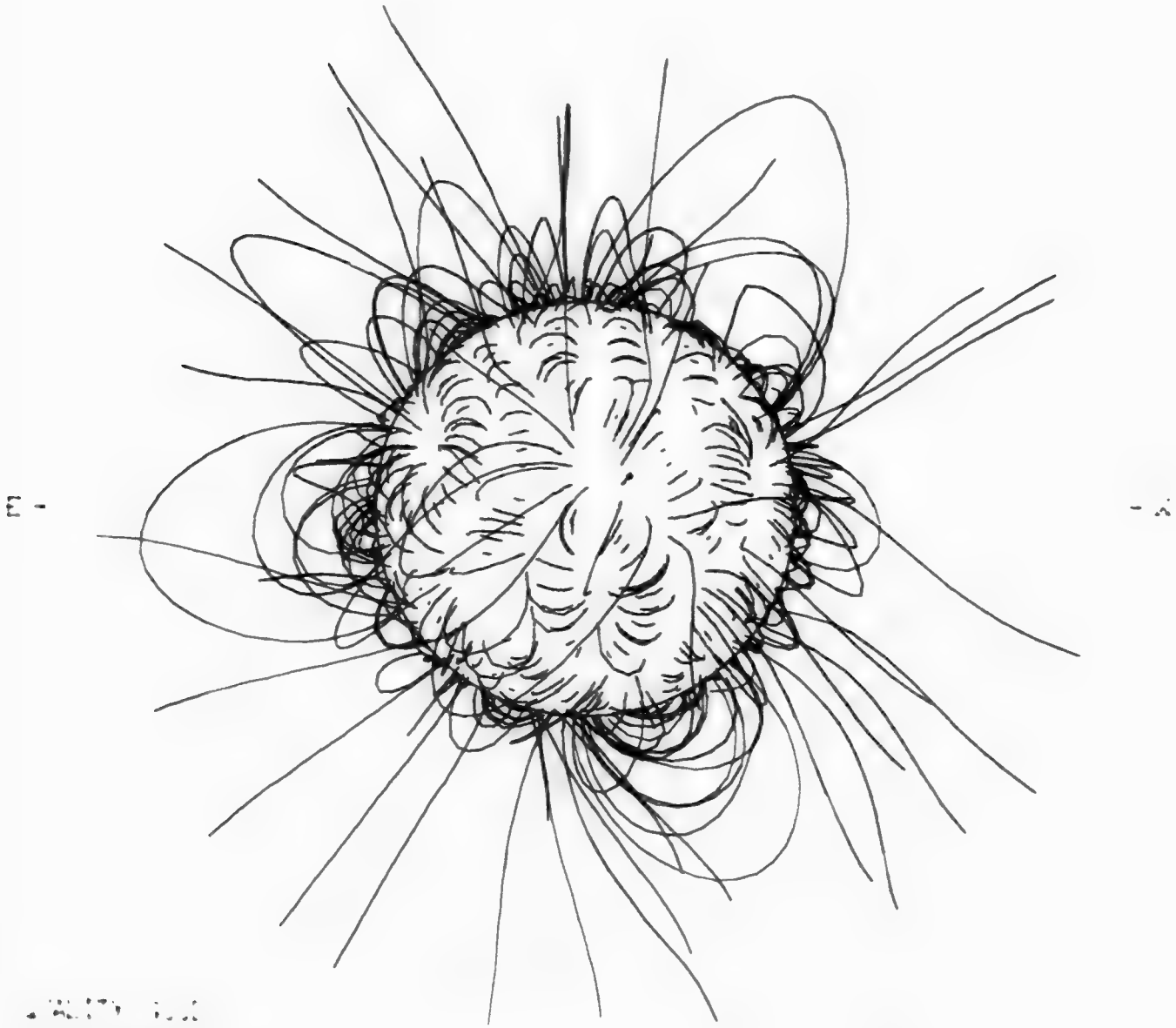
ROT. 1544 LONG. 220°

11.3 FEB 1969

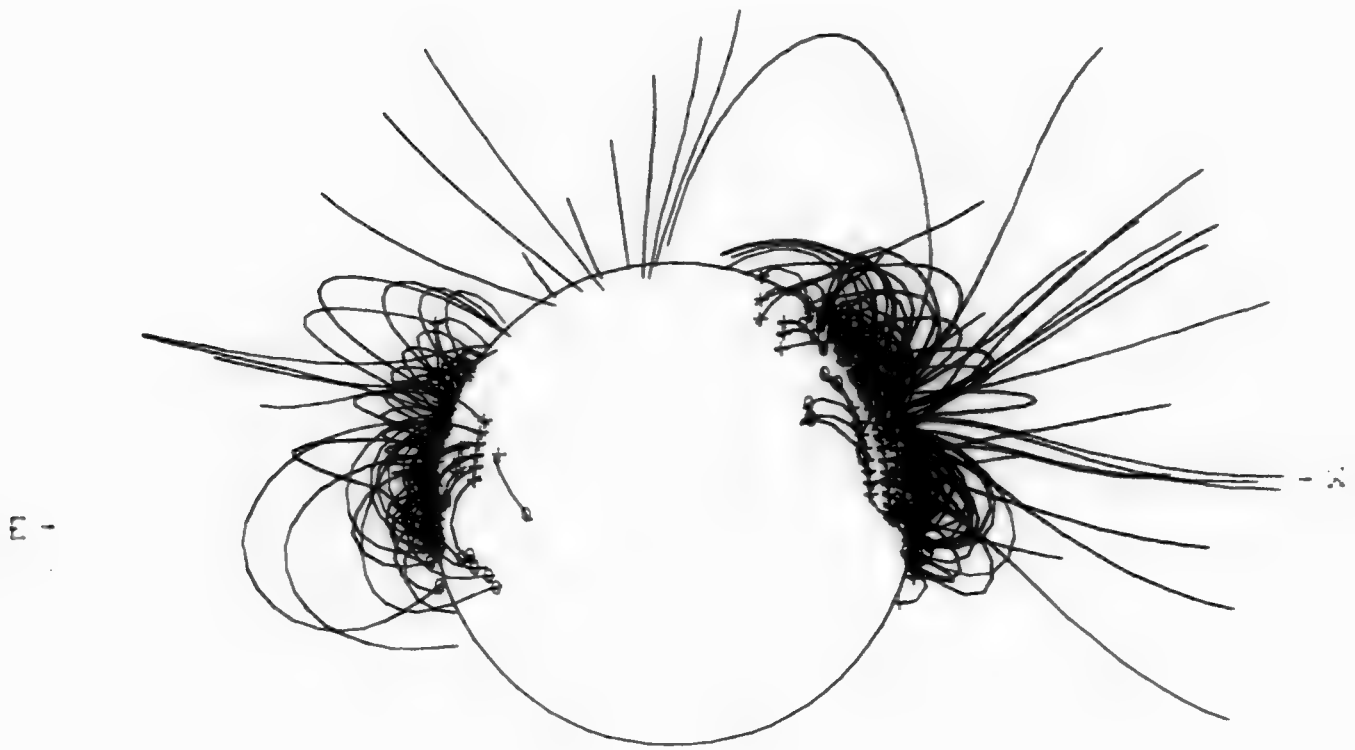
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



QUALITY GOOD

FILES DIRECT

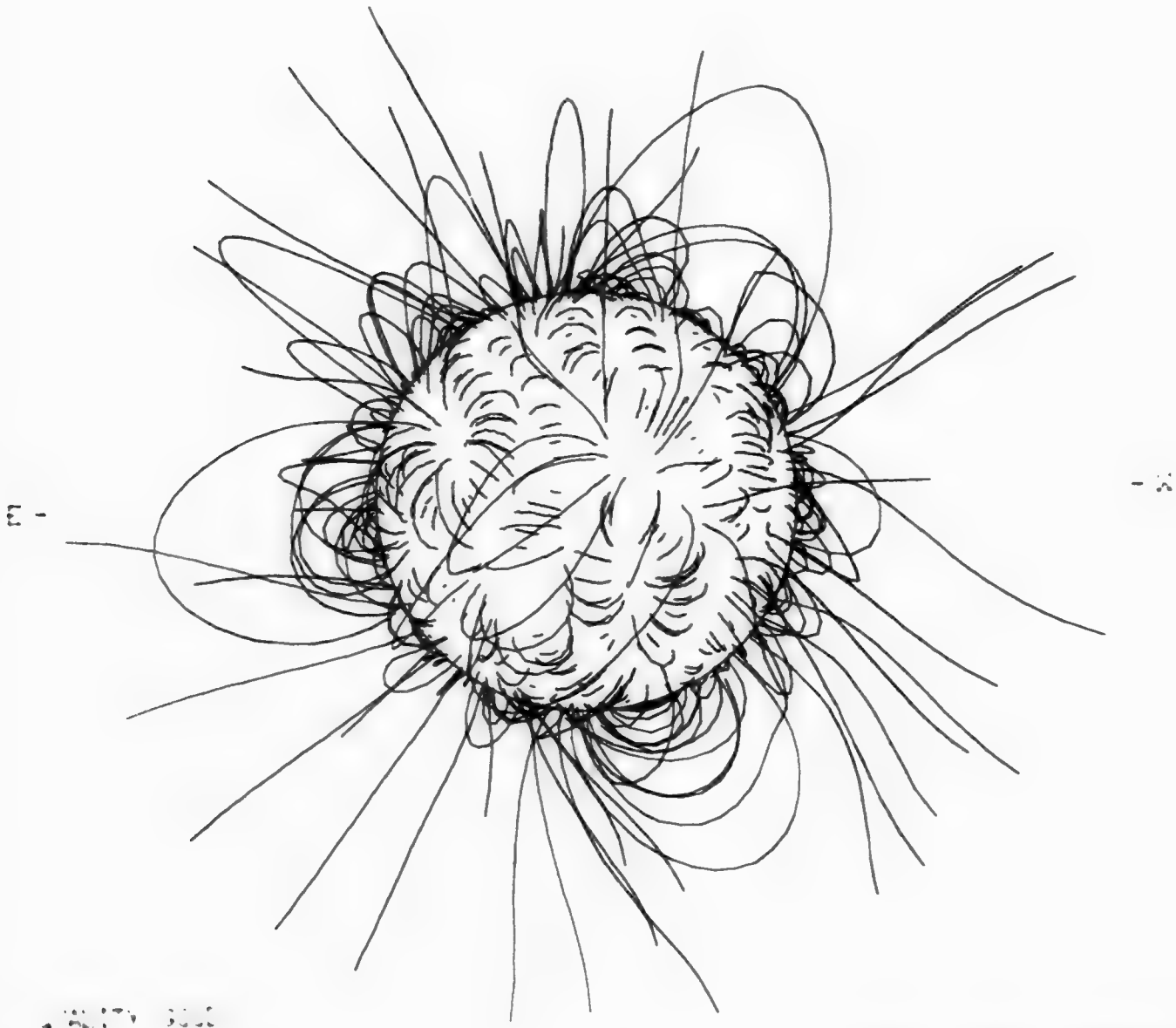
DATA WINDOW 1544.00

S

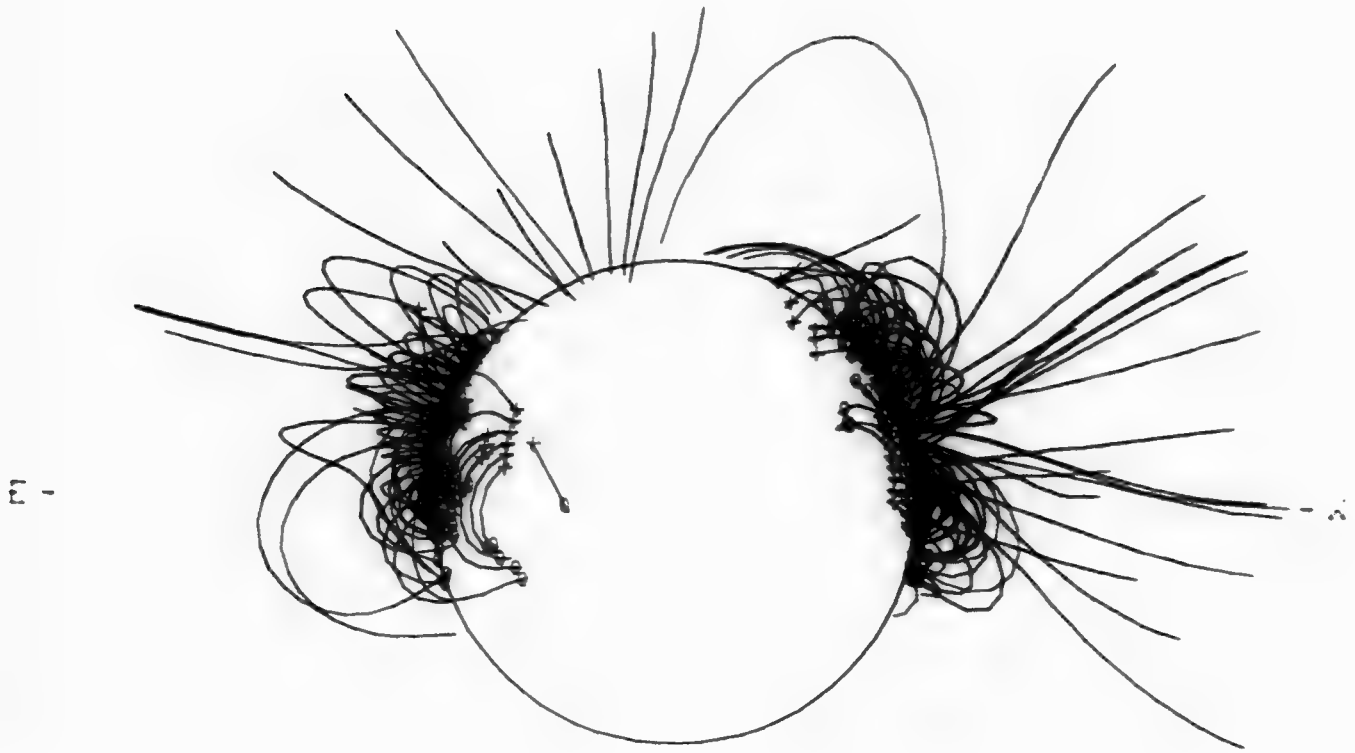
R.T. 1544 JUN. 21

12 FEB

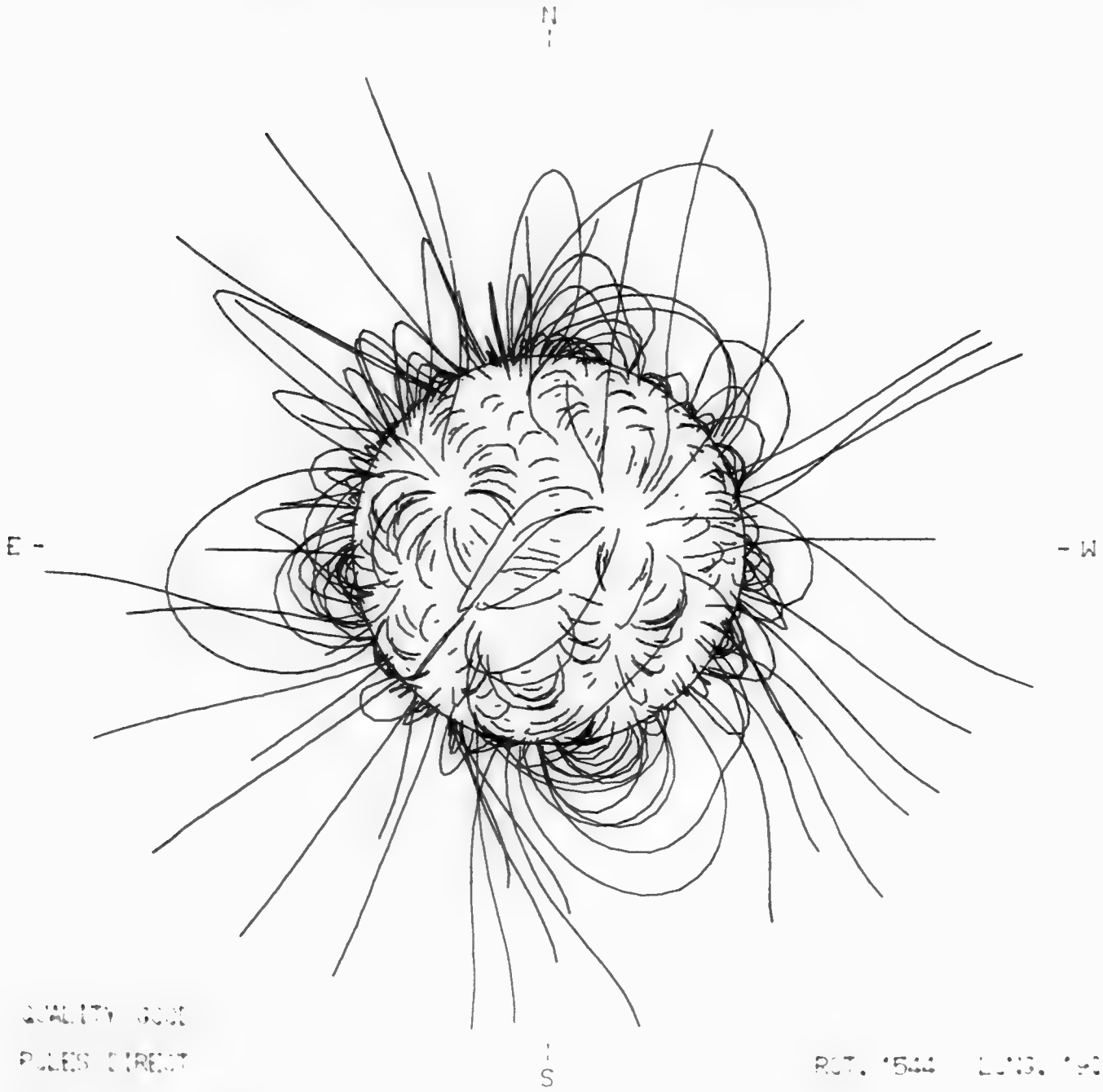
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



QUALITY 3.0X

FILES DIRECT

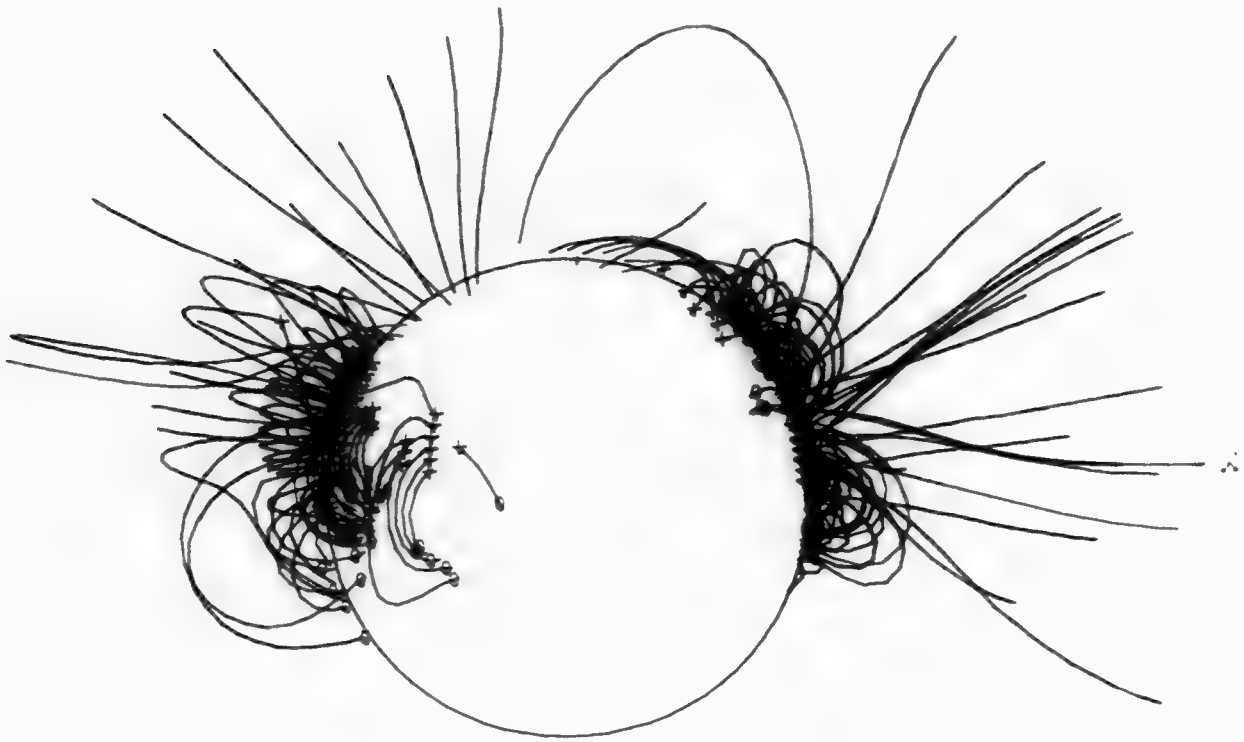
DATA WINDOW 1544.00

ROT. 1544 LONG. 90°

13.6 FEB 1969

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

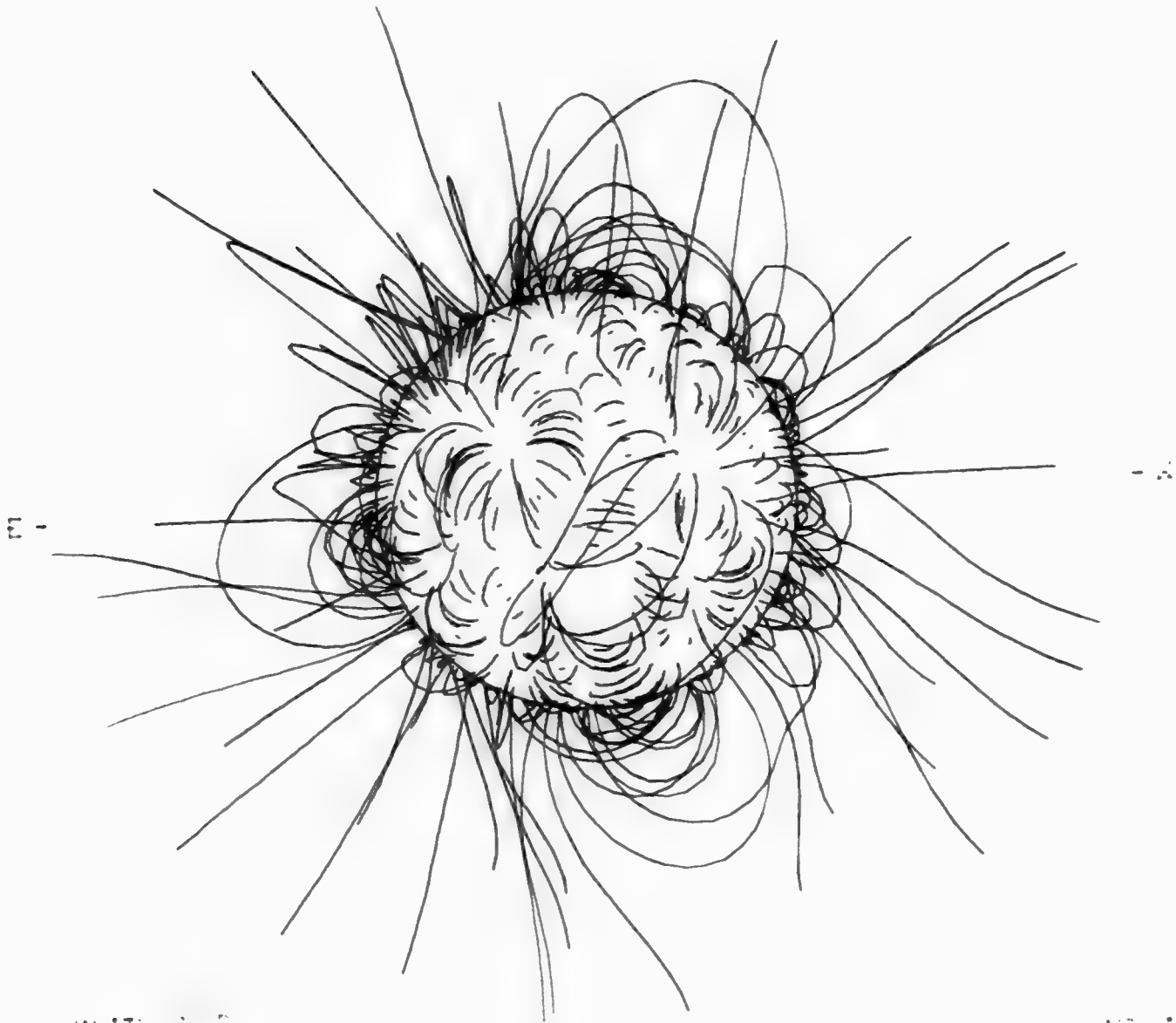
N



E -

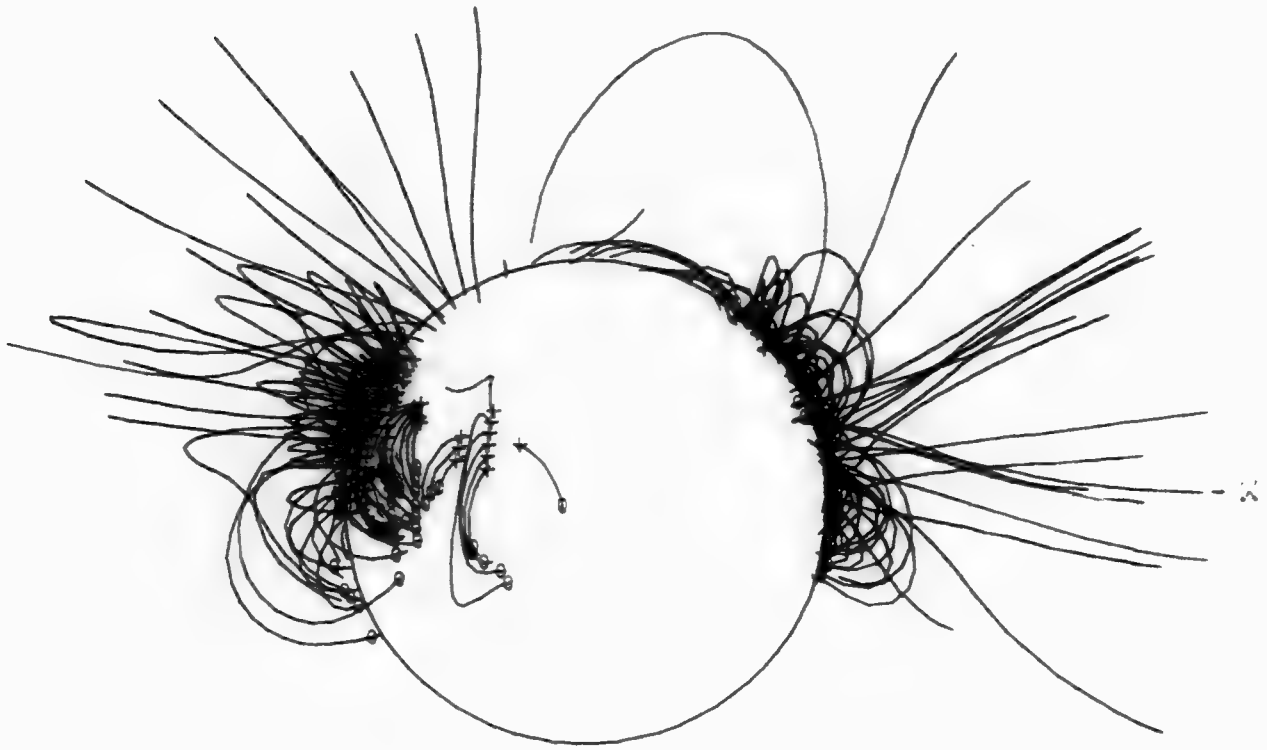
POLES DIRECT

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N

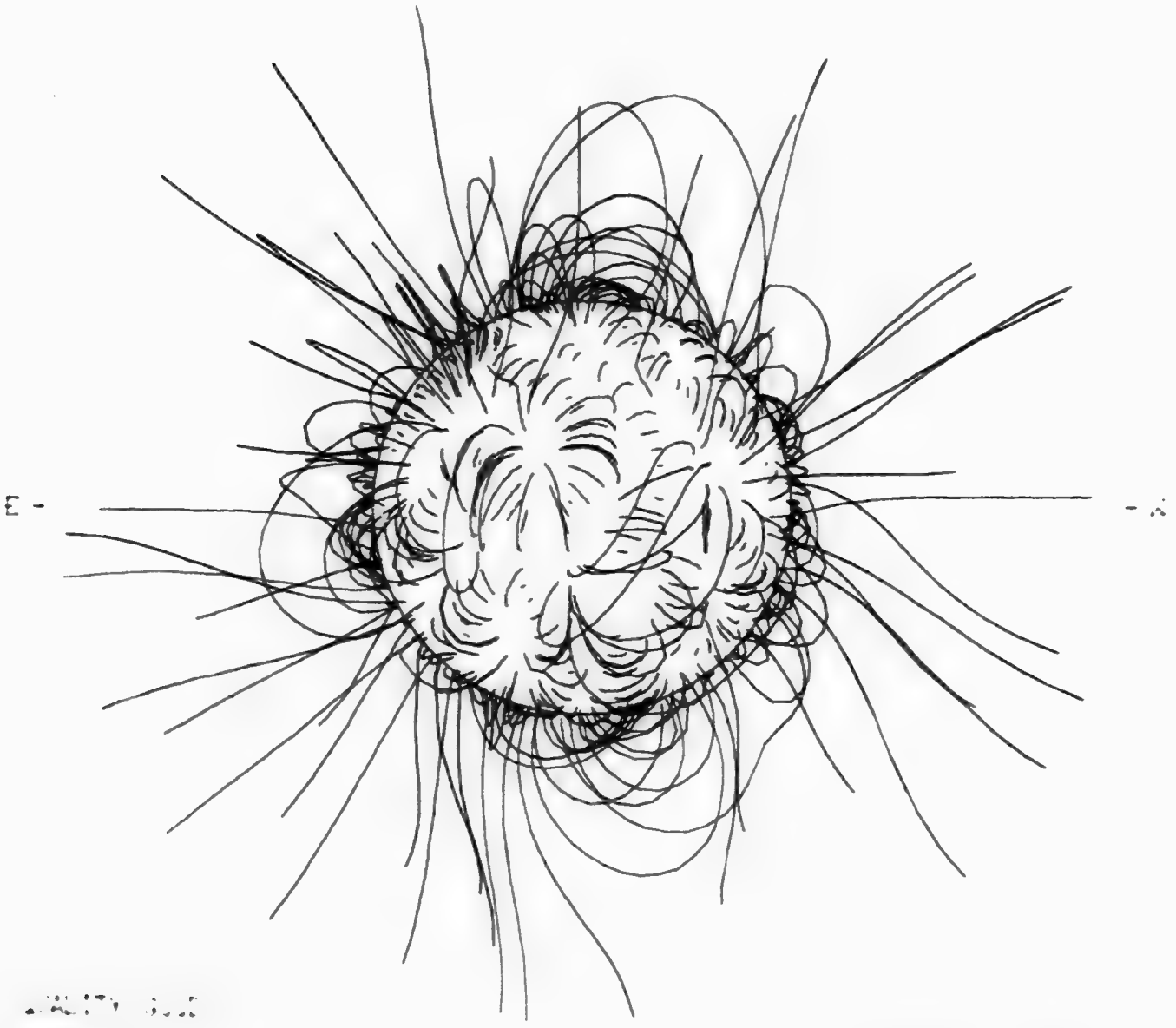


E -

- W

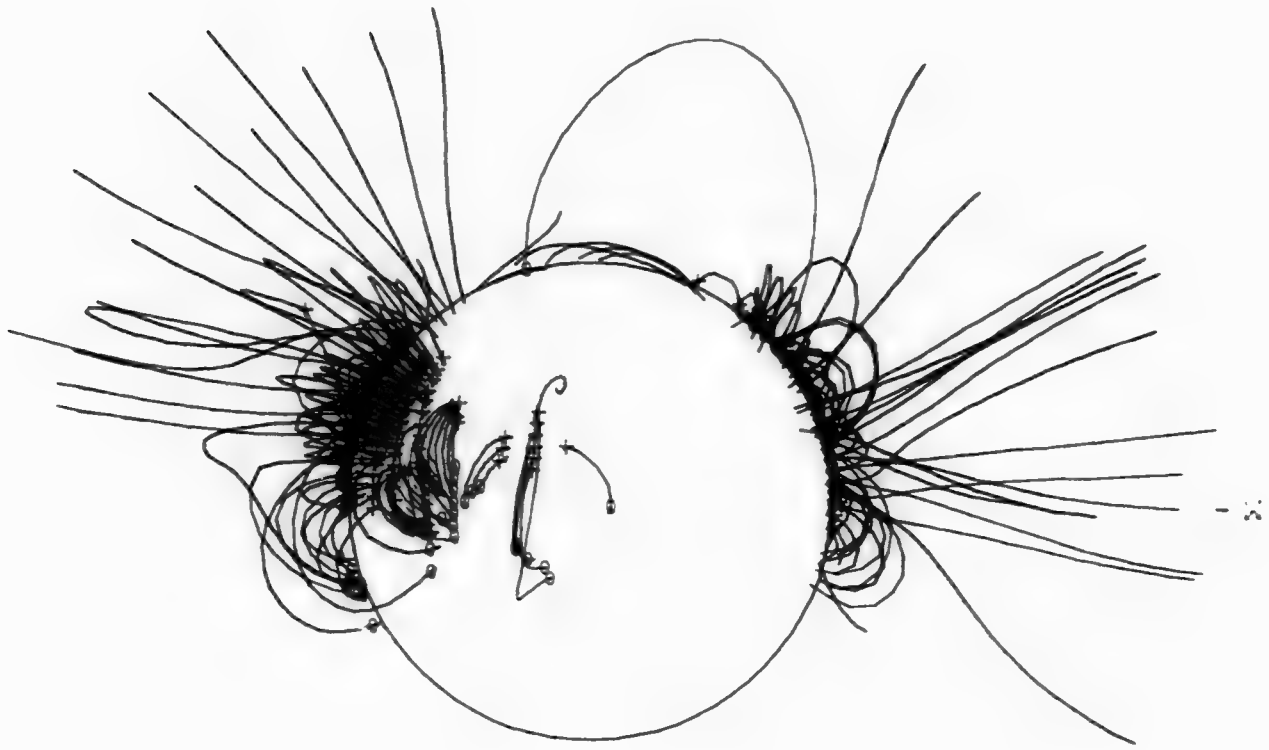
S

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N



E -

- W

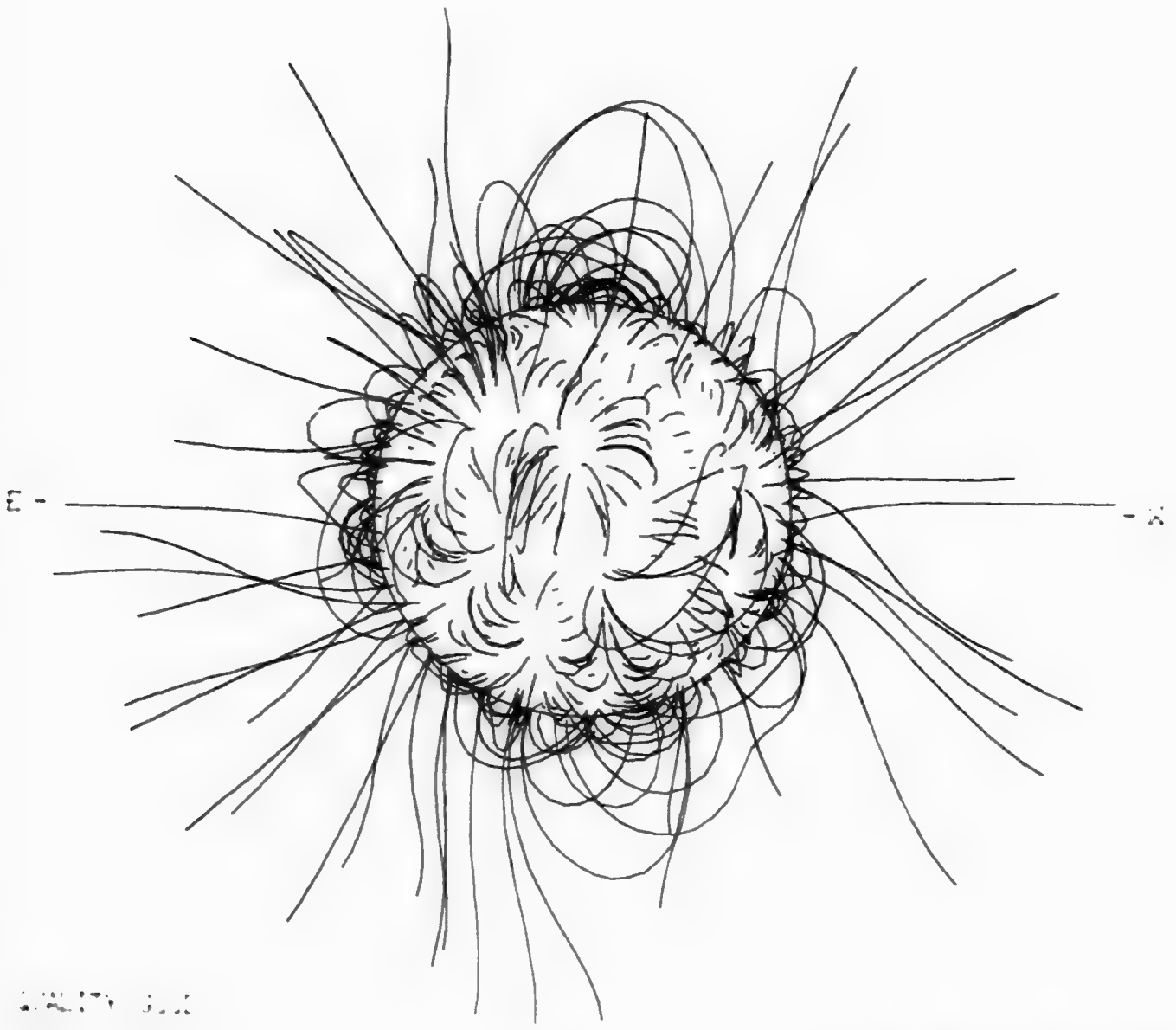
S

POLES DIRECT

DATA WINDOW 1544.00

15.1 FEB 1969

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



QUALITY [illegible]

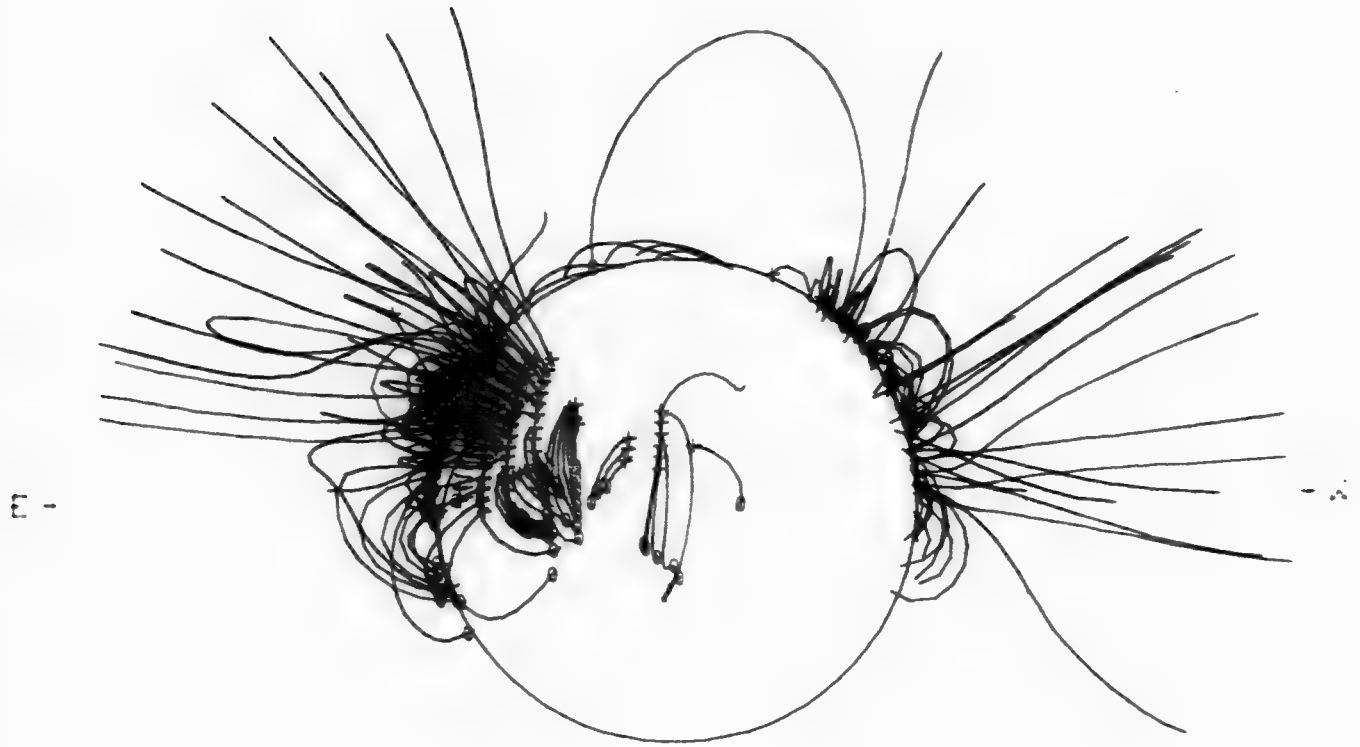
POLES DIRECT

DATA WINDOW [illegible]

ROT. [illegible] LONG. [illegible]°

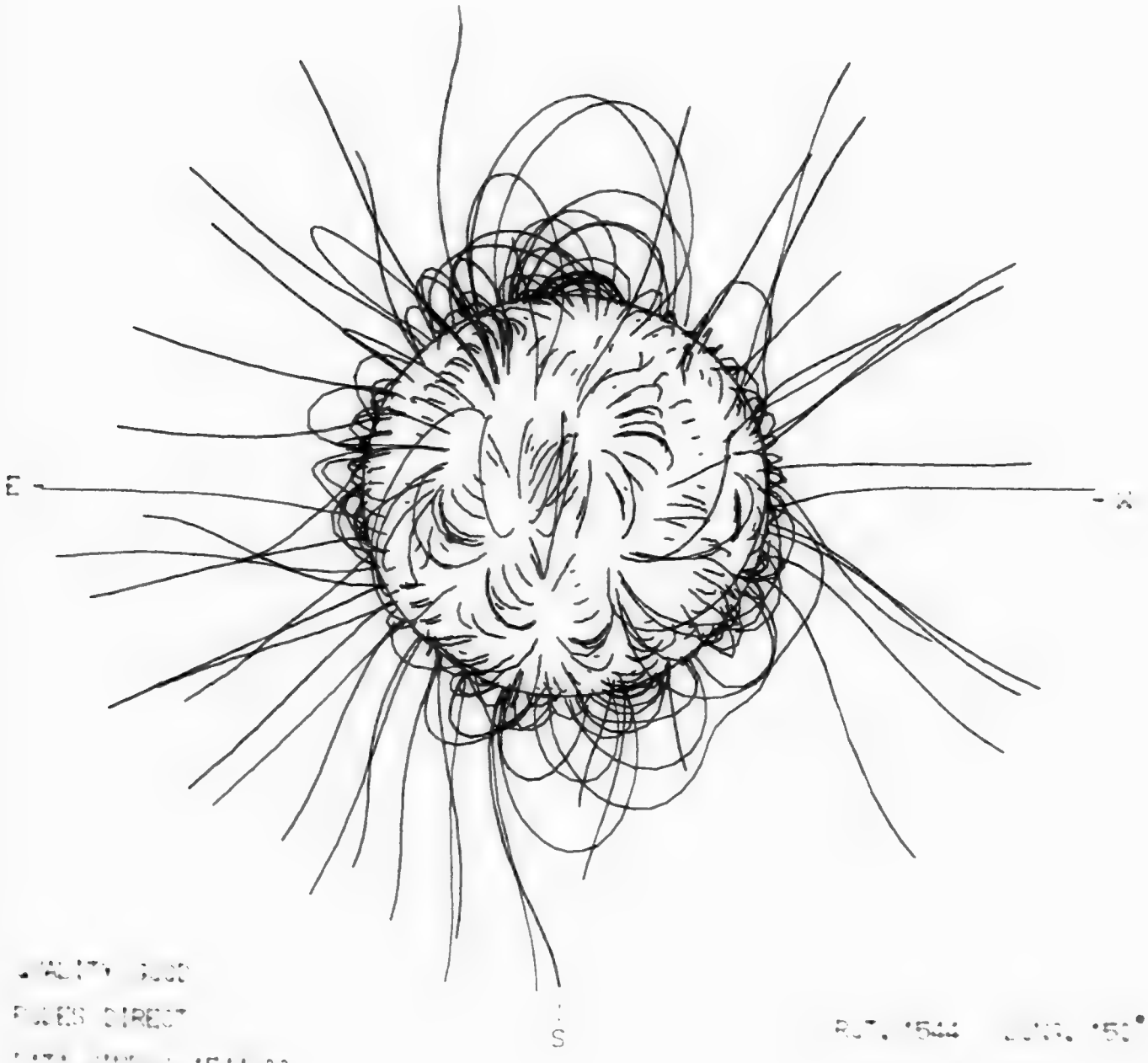
[illegible] FEB [illegible]

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



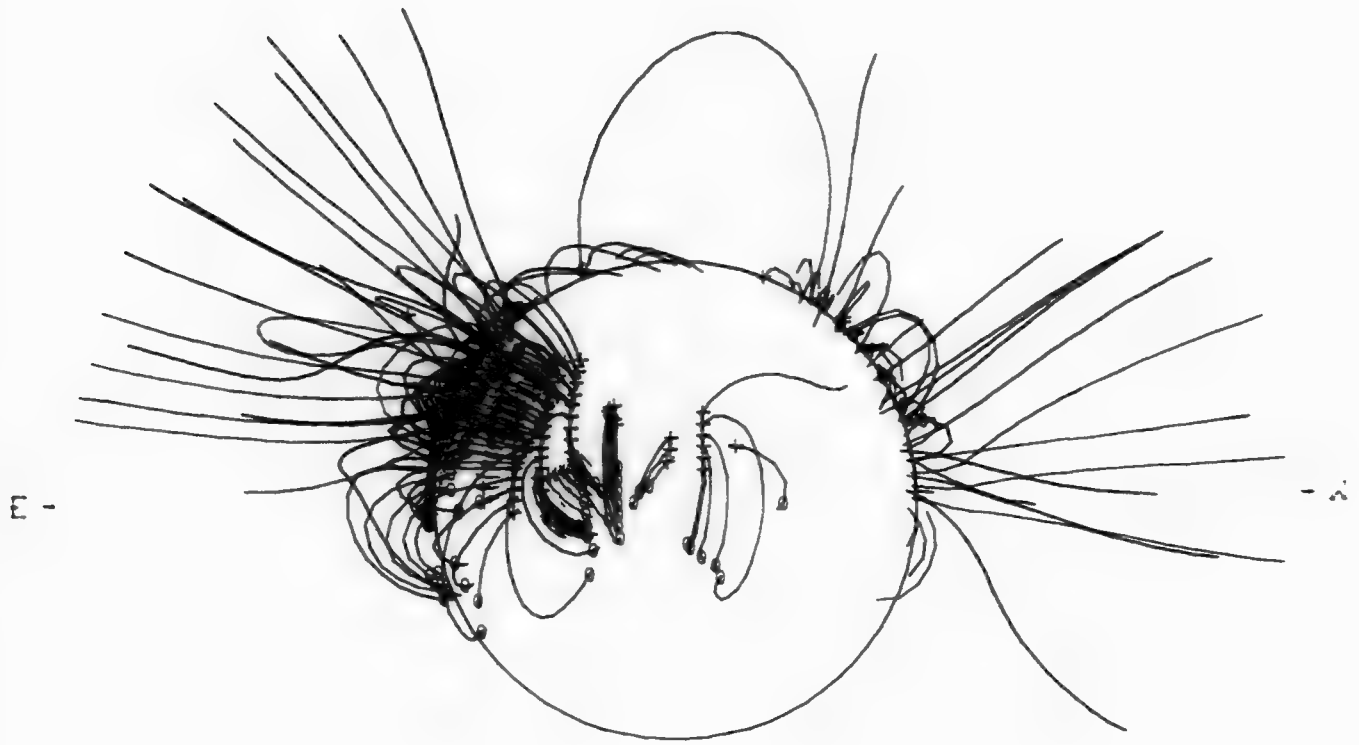
POLES DIRECT

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N

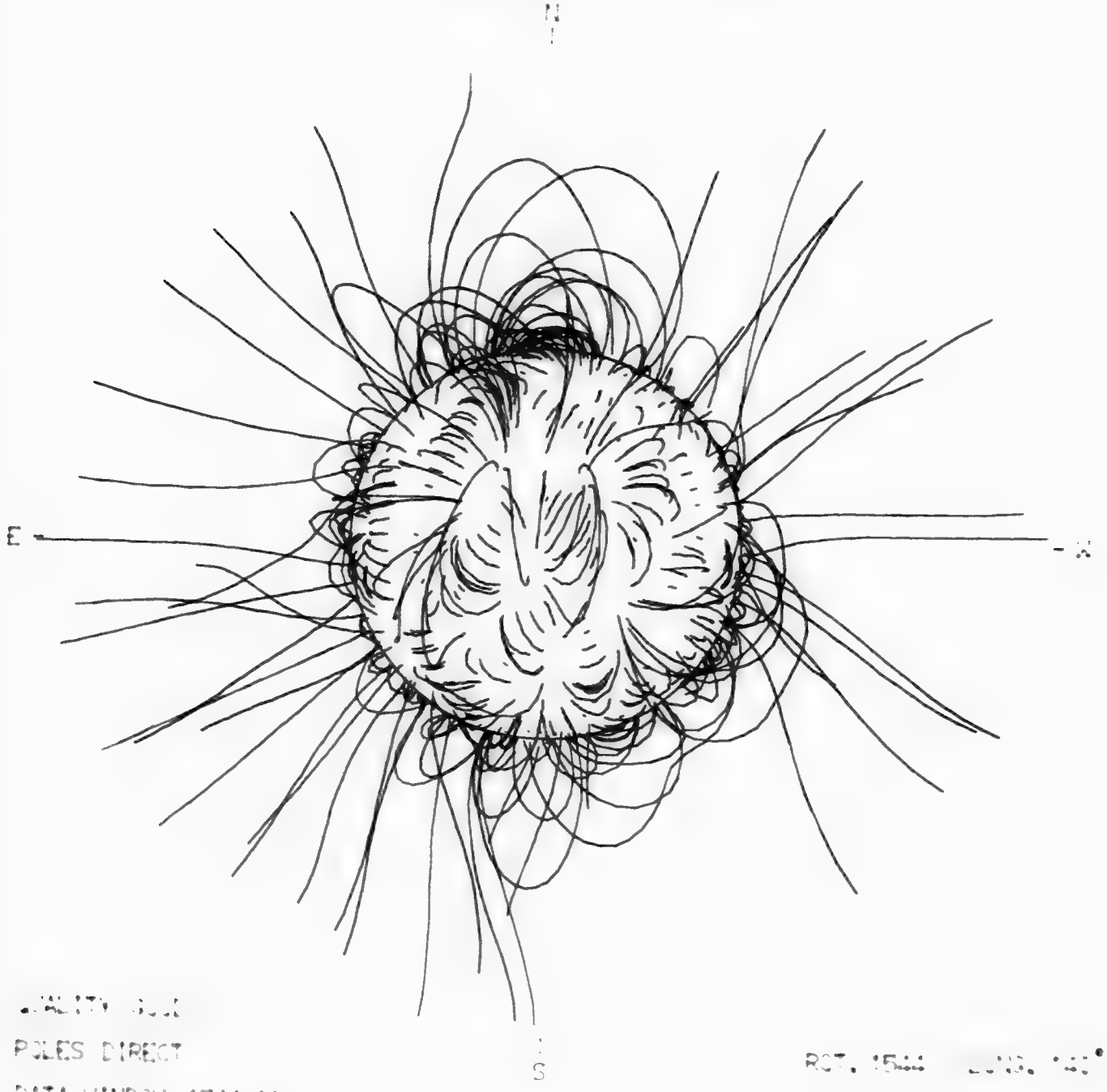


E -

- A

S

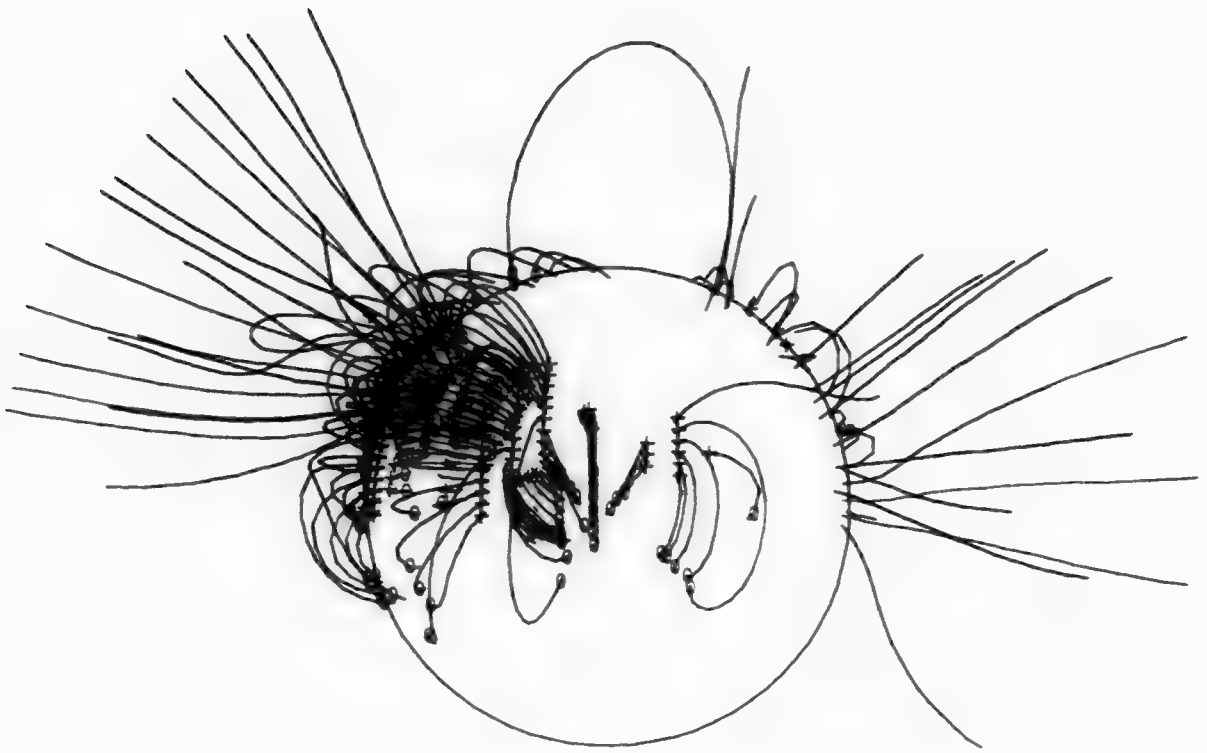
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



POLES DIRECT

DATA WINDOW 1544.00

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



QUALITY 3000

POLES DIRECT

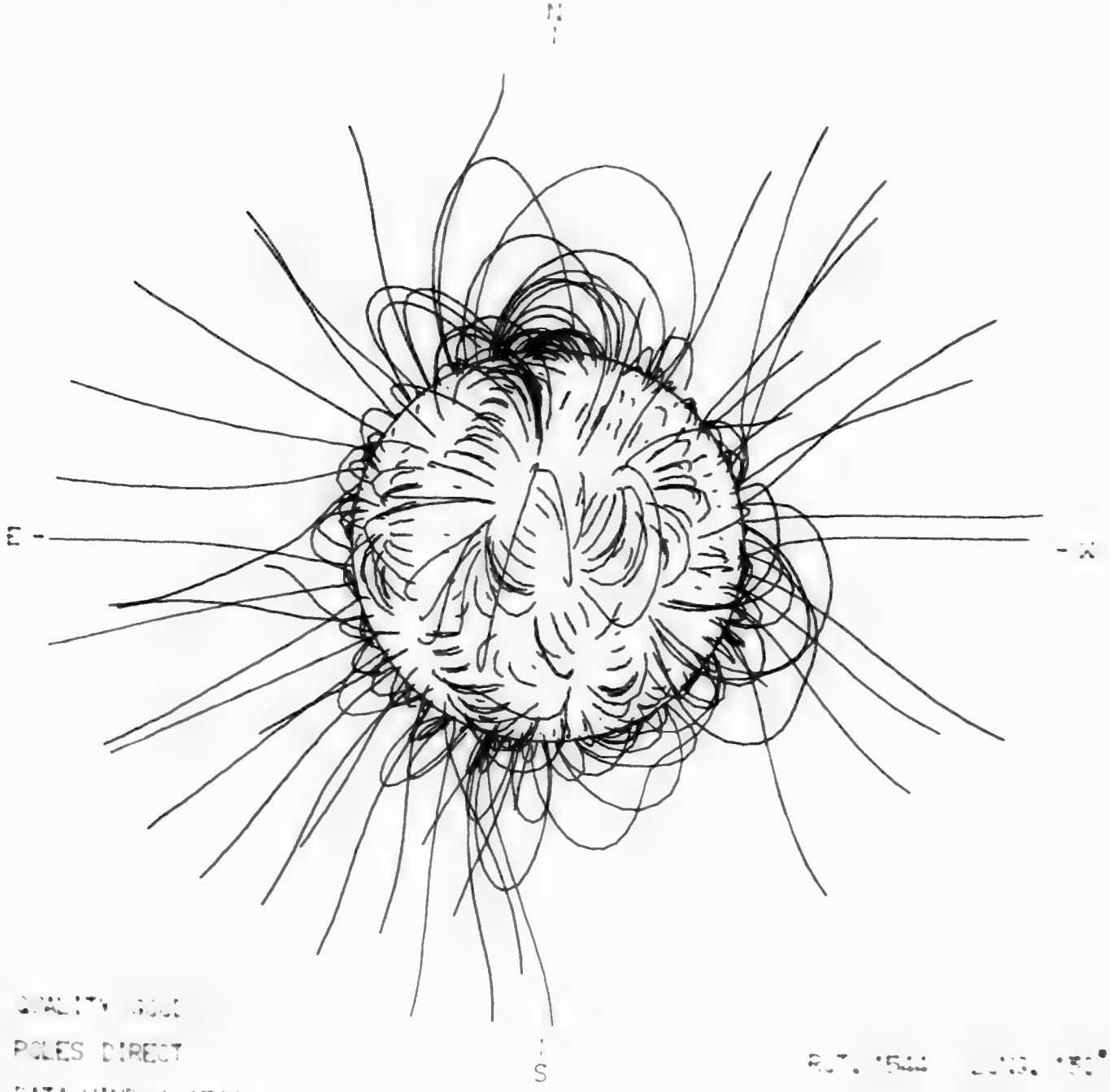
DATA MAP AT 1544.00

S

R.T. 1544 LAT. 41°

17.4 FEB 1964

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



QUALITY [illegible]

POLES DIRECT

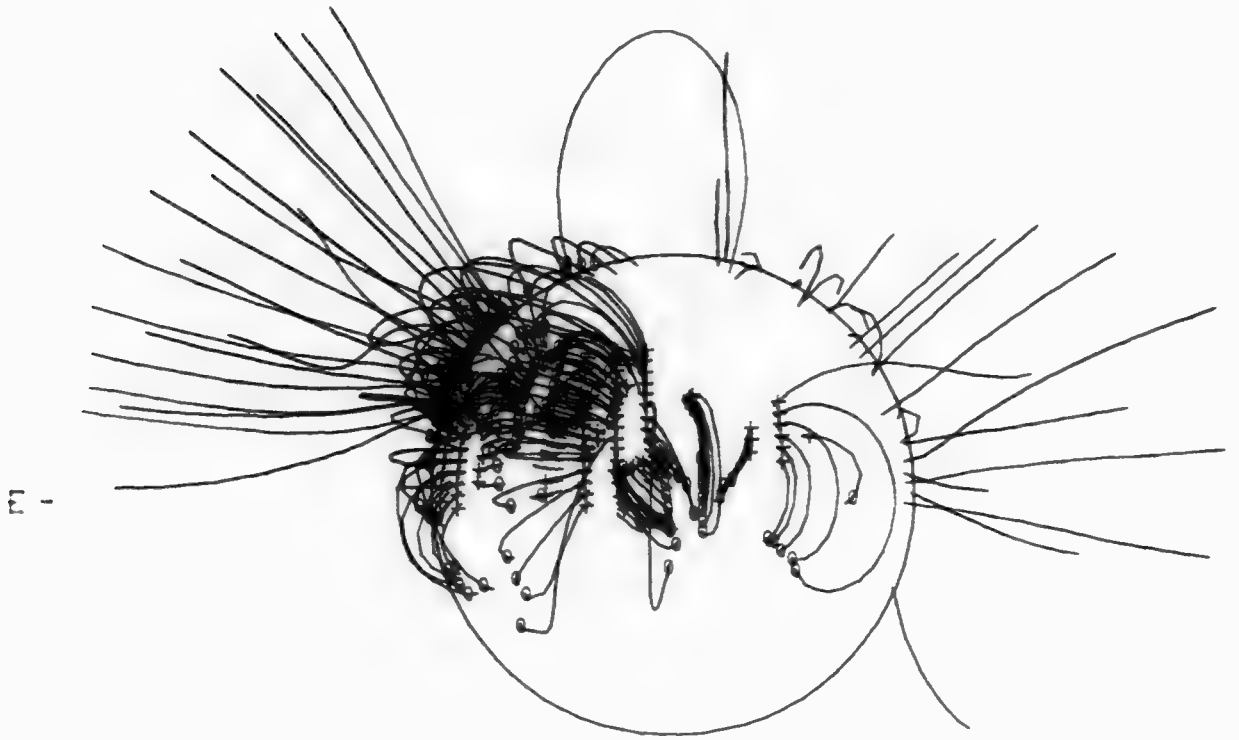
DATA WINDOW 1544.00

R.T. 1544 [illegible]

'8.2 FEB '[illegible]

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N



E -

- A

QUALITY GOOD

POLES DIRECT

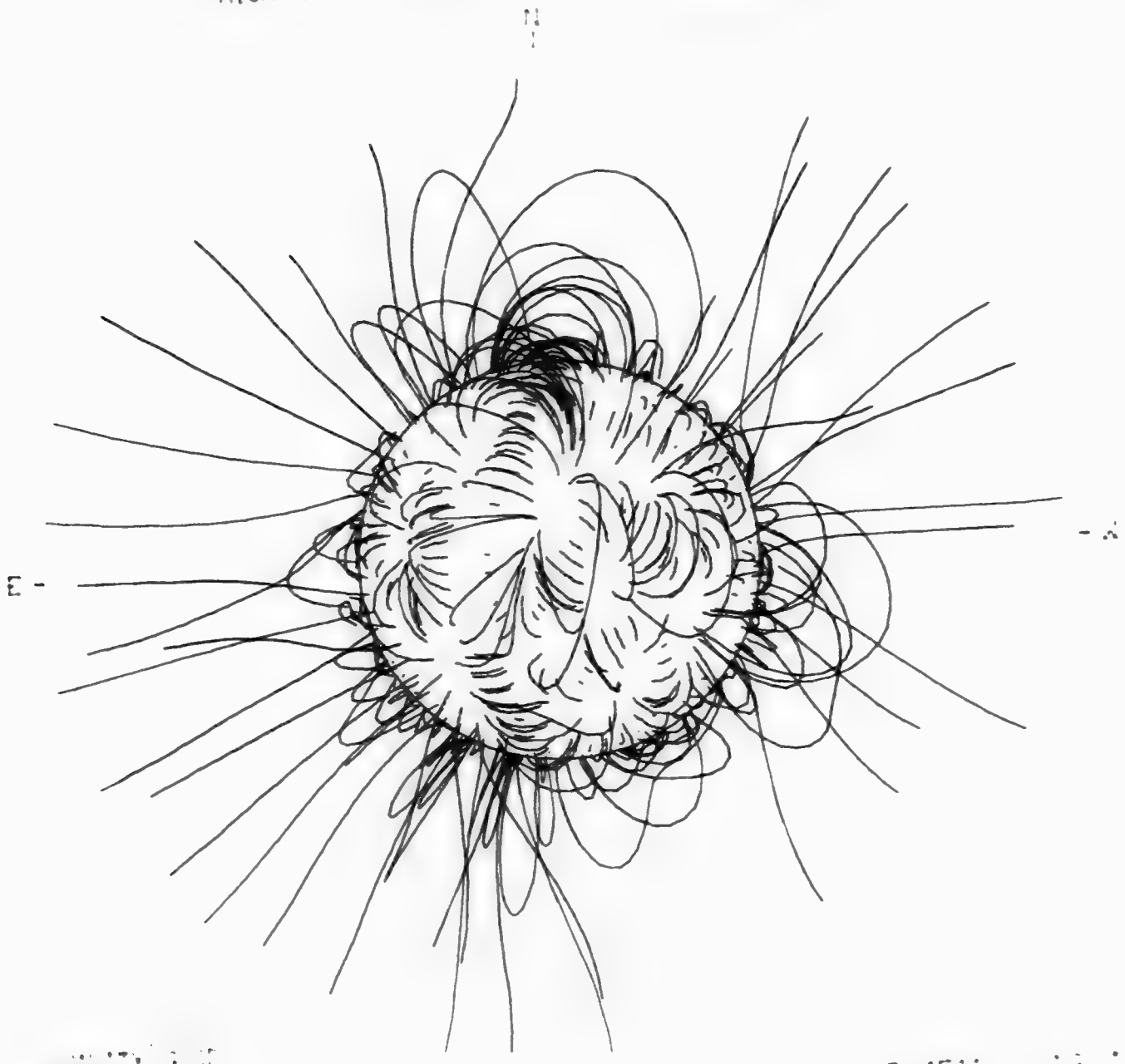
DATA WINDOW 5444.00

S

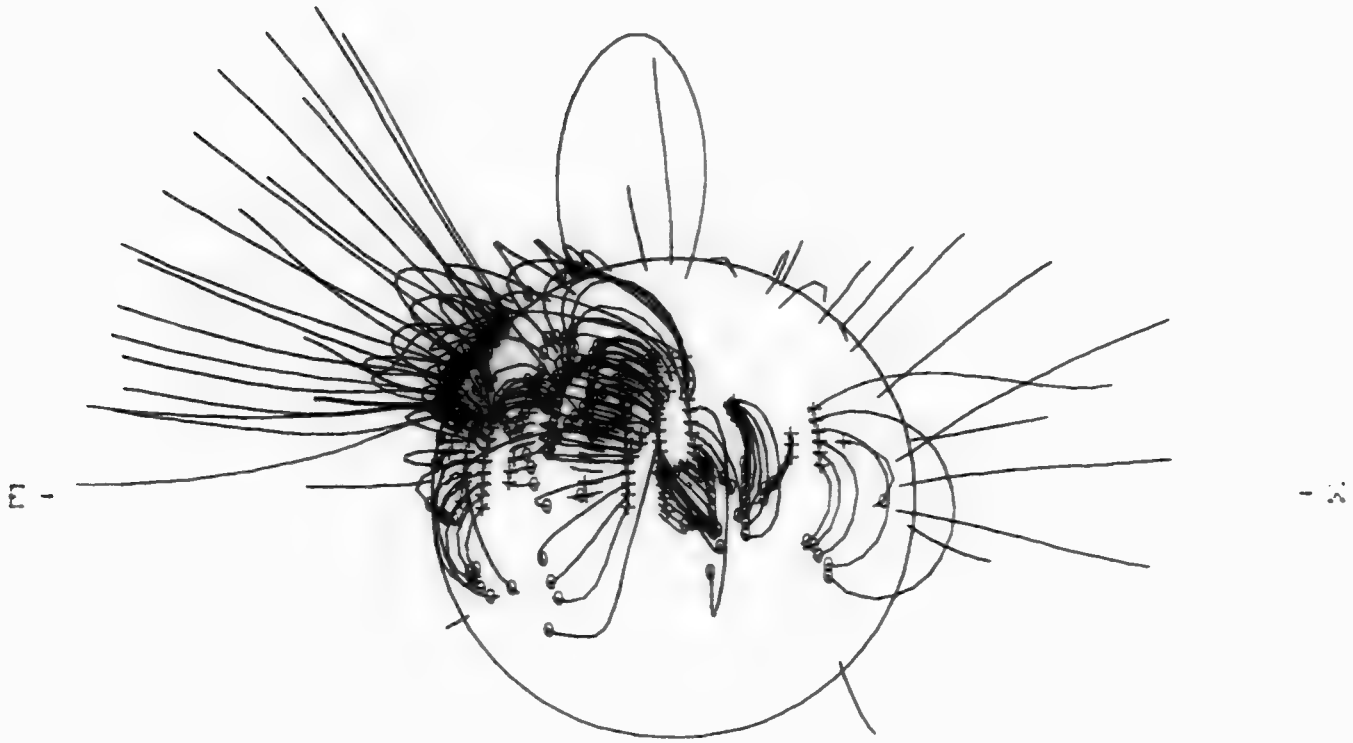
R.T. 5444 LAT. 33°

MAG PER

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

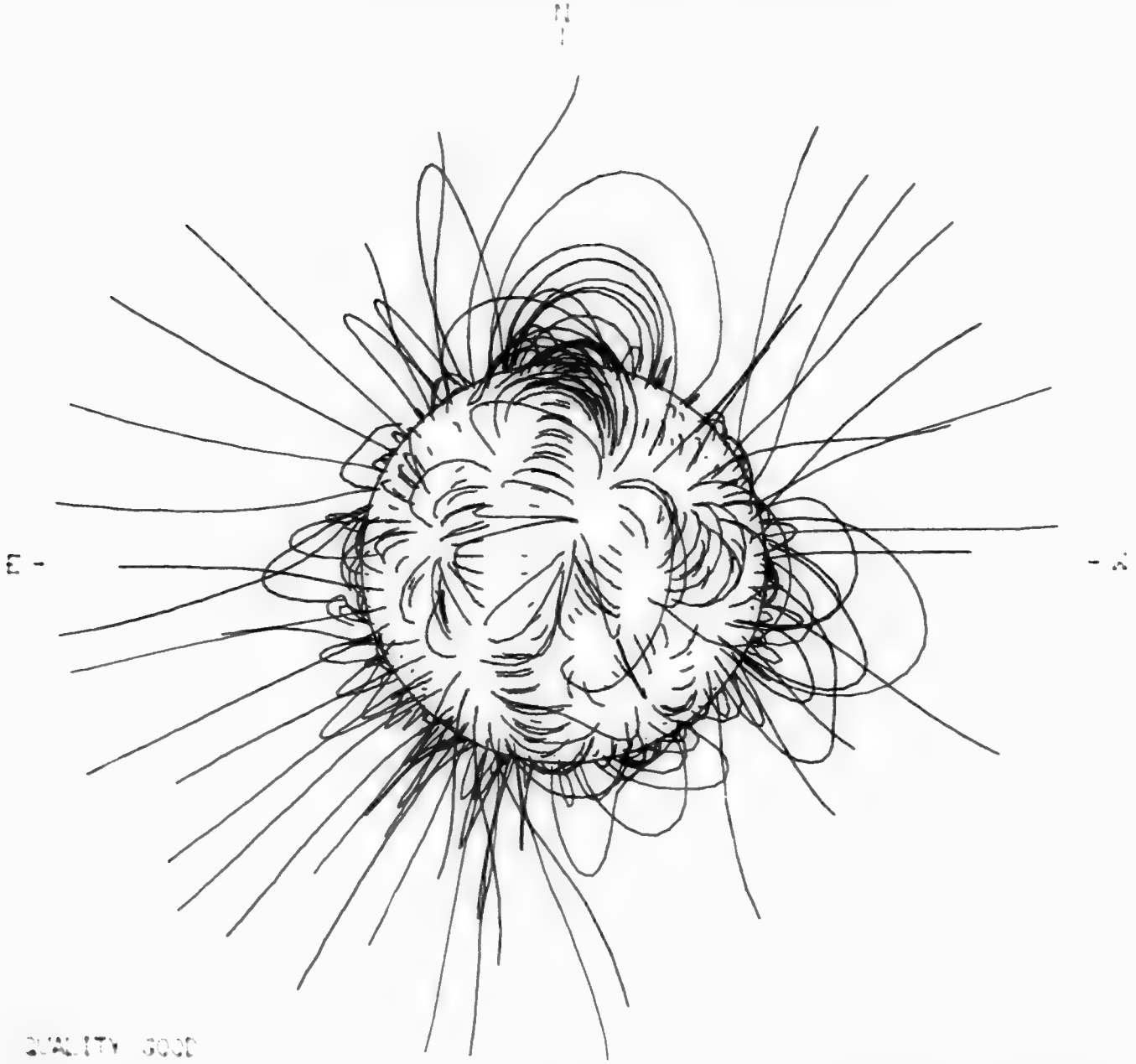


HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



POLES DIRECT

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



QUALITY GOOD

POLES DIRECT

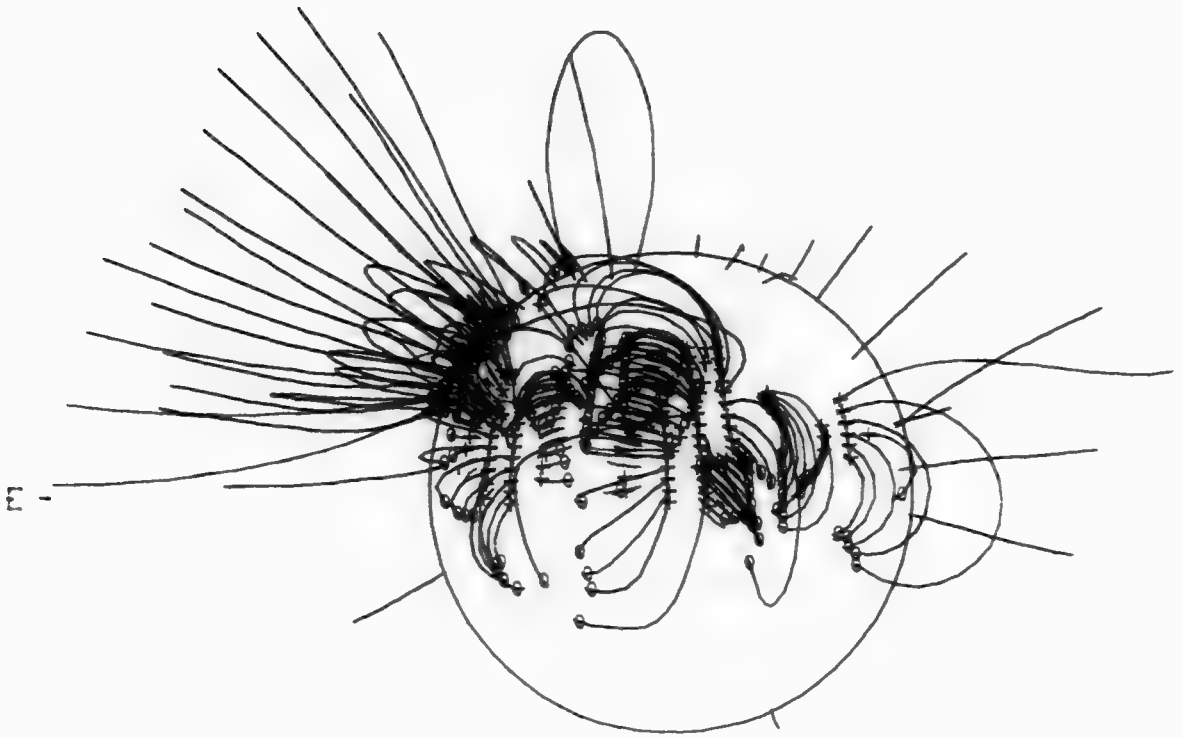
DATA AVAILABLE 1500.00

R.T. 1500 LONG. 000°

19.7 FEB

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N



E

W

S

QUALITY GOOD

POLES DIRECT

DATA AVAILABLE 1544.00

R.T. 1544 LONG. 000°

FEB 1964

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N

E -

- W

S

QUALITY GOOD

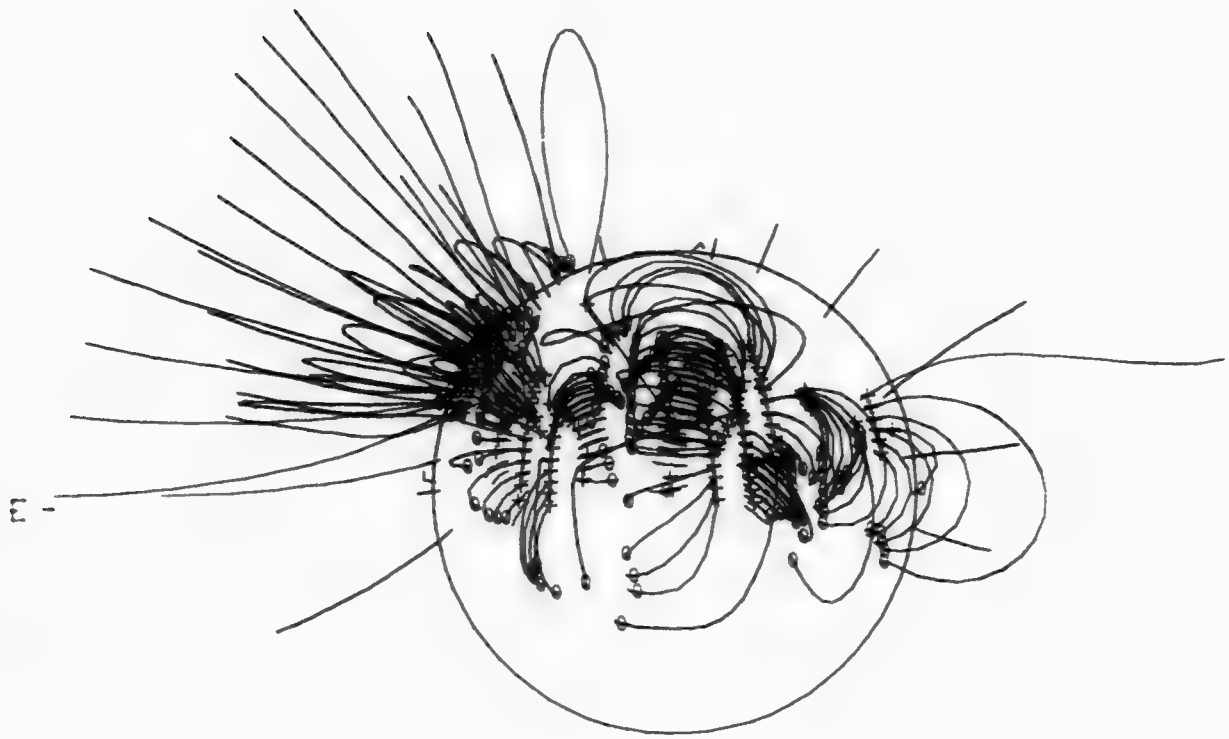
POLES DIRECT

DATA WINDOW 1544.00

R.T. 1544 LONG. 00°

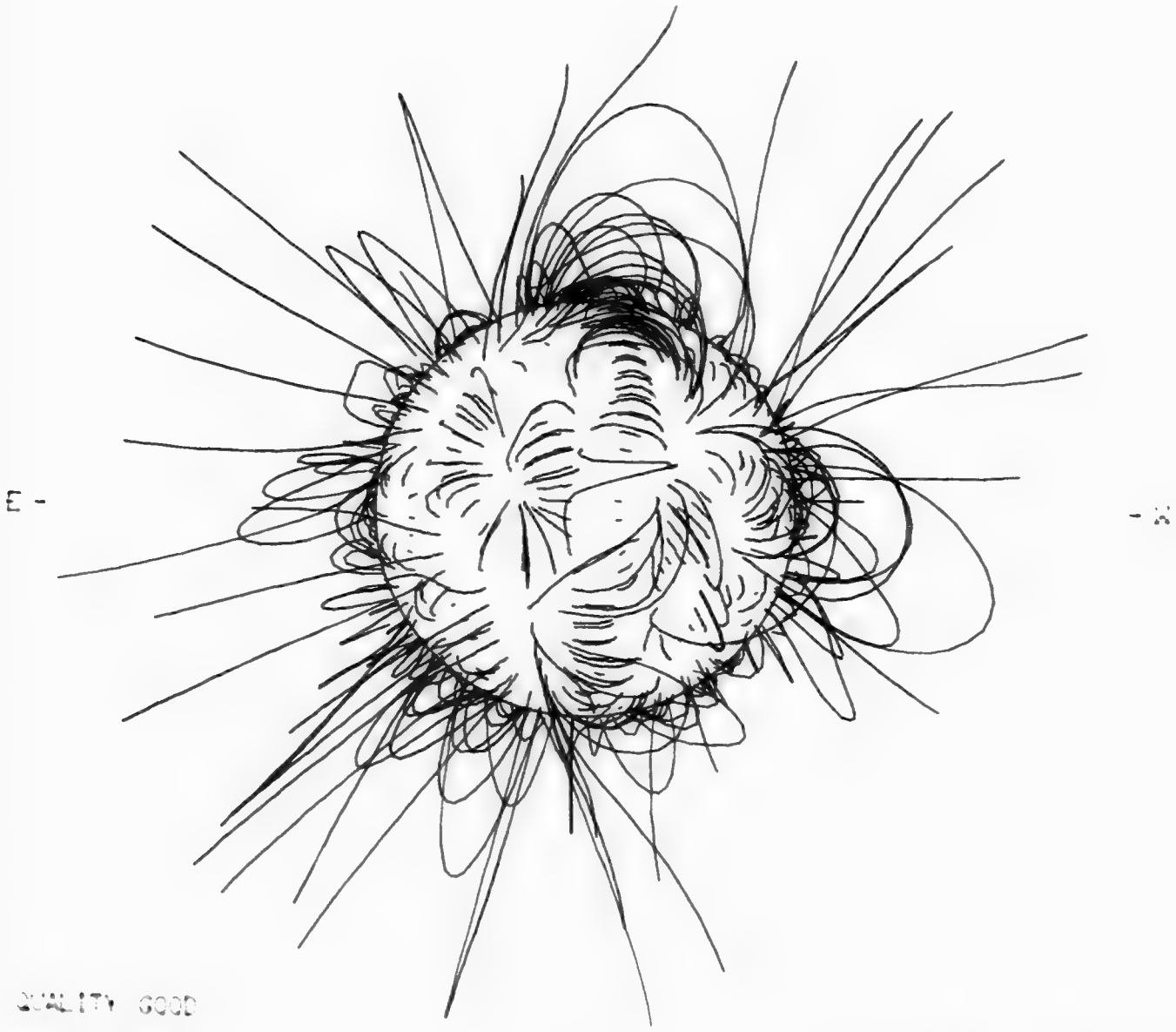
00:4 FEB 19[illegible]

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



QUALITY GOOD
POLES DIRECT
DATA WINDOW 1544.00

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



QUALITY GOOD

POLES DIRECT

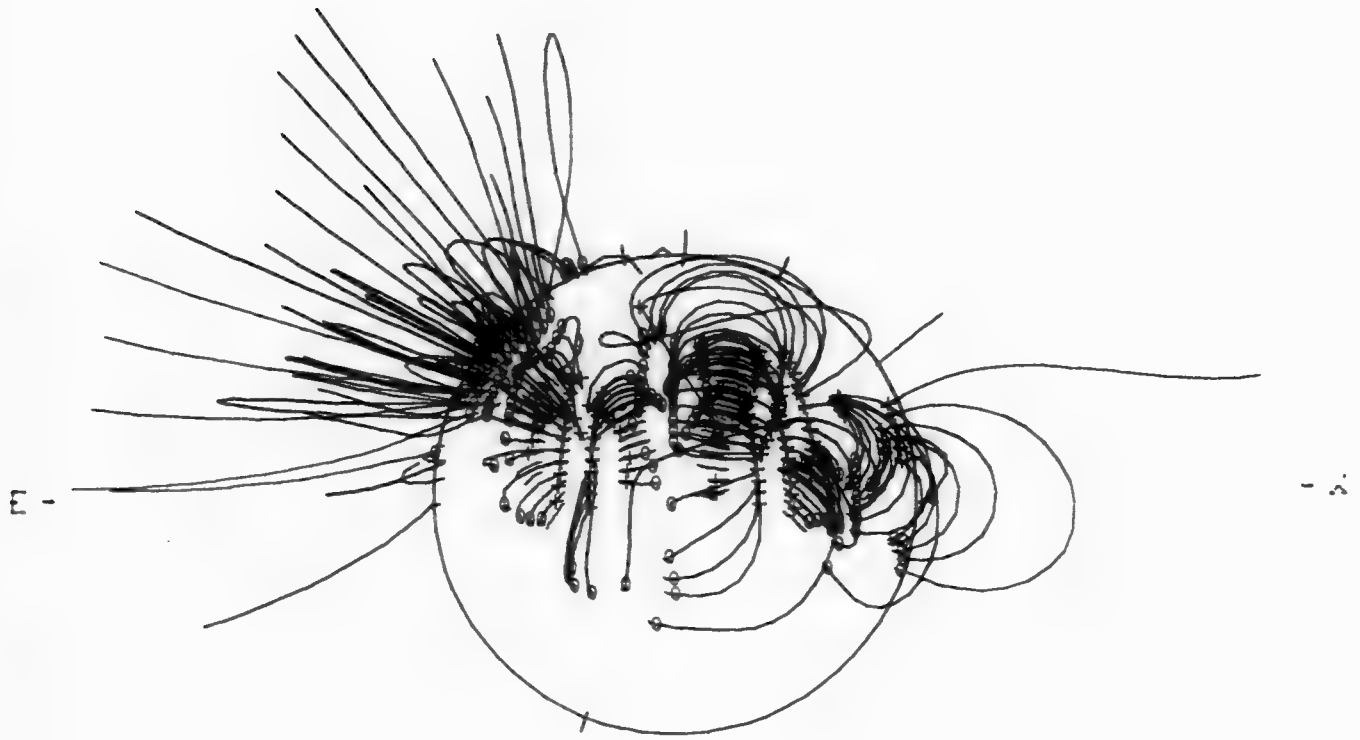
DATA AVAILABLE 1544.00

R.T. 1544 LONG. 45°

21.2 FEB 1969

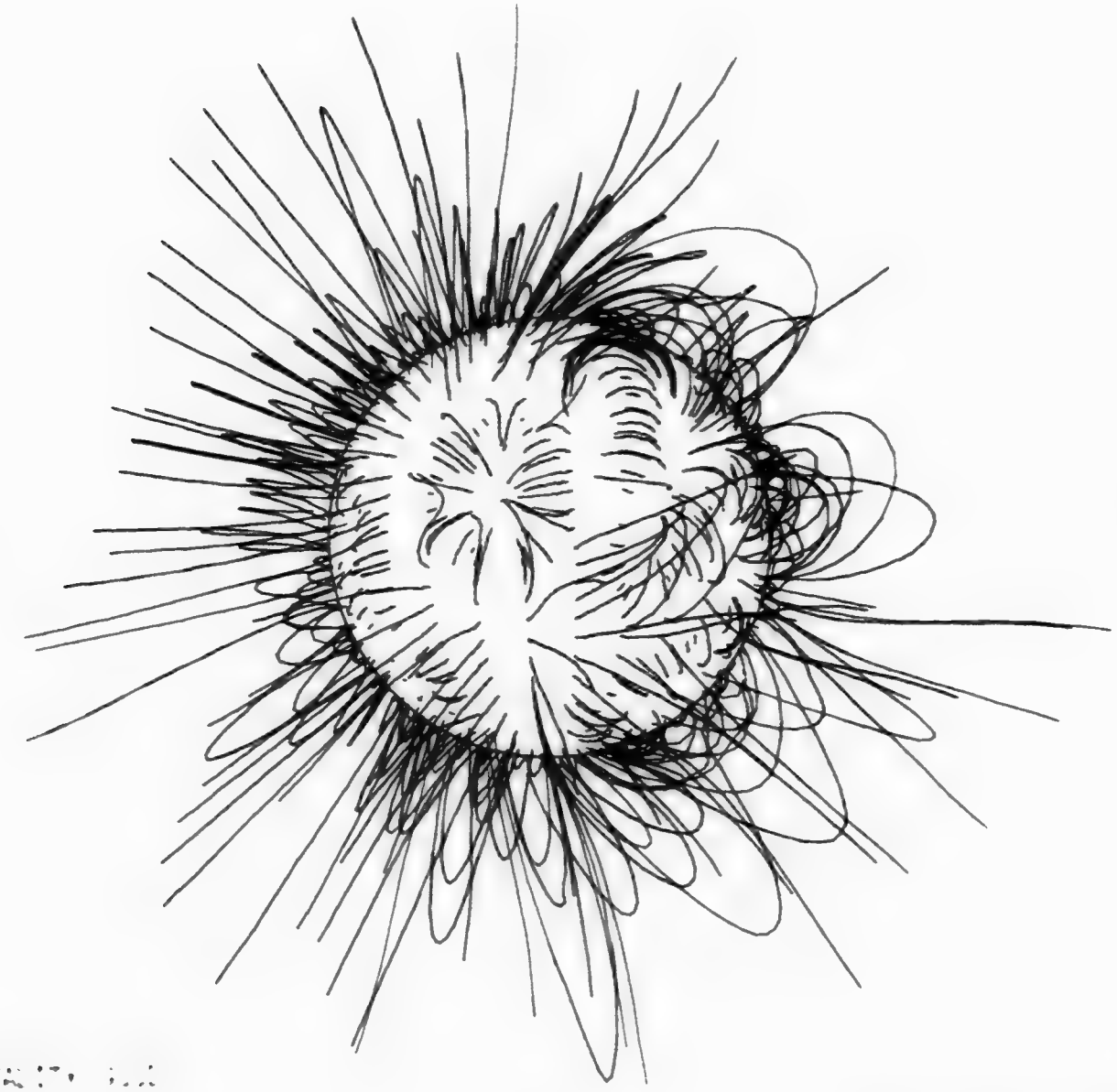
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N

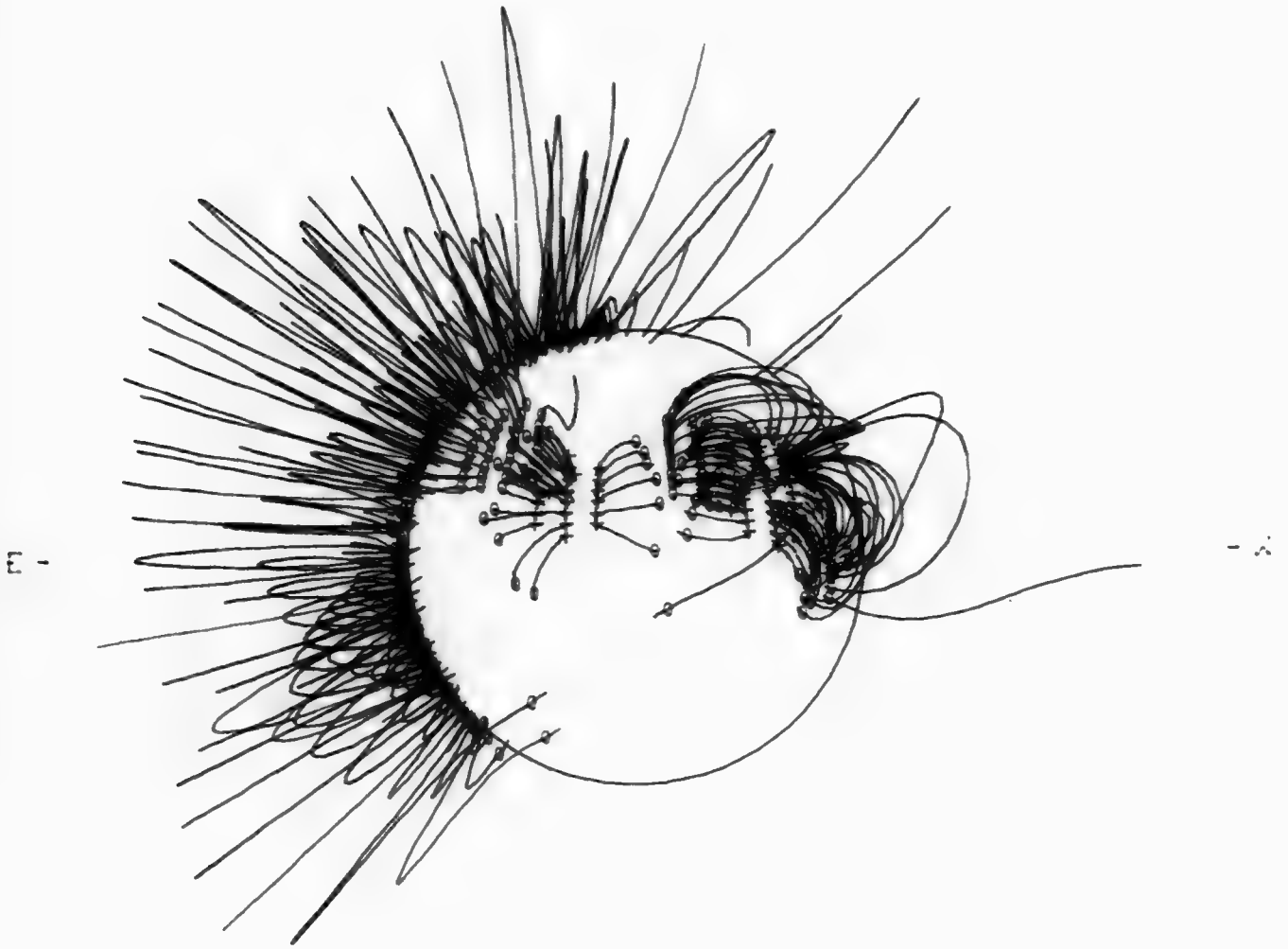


S

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



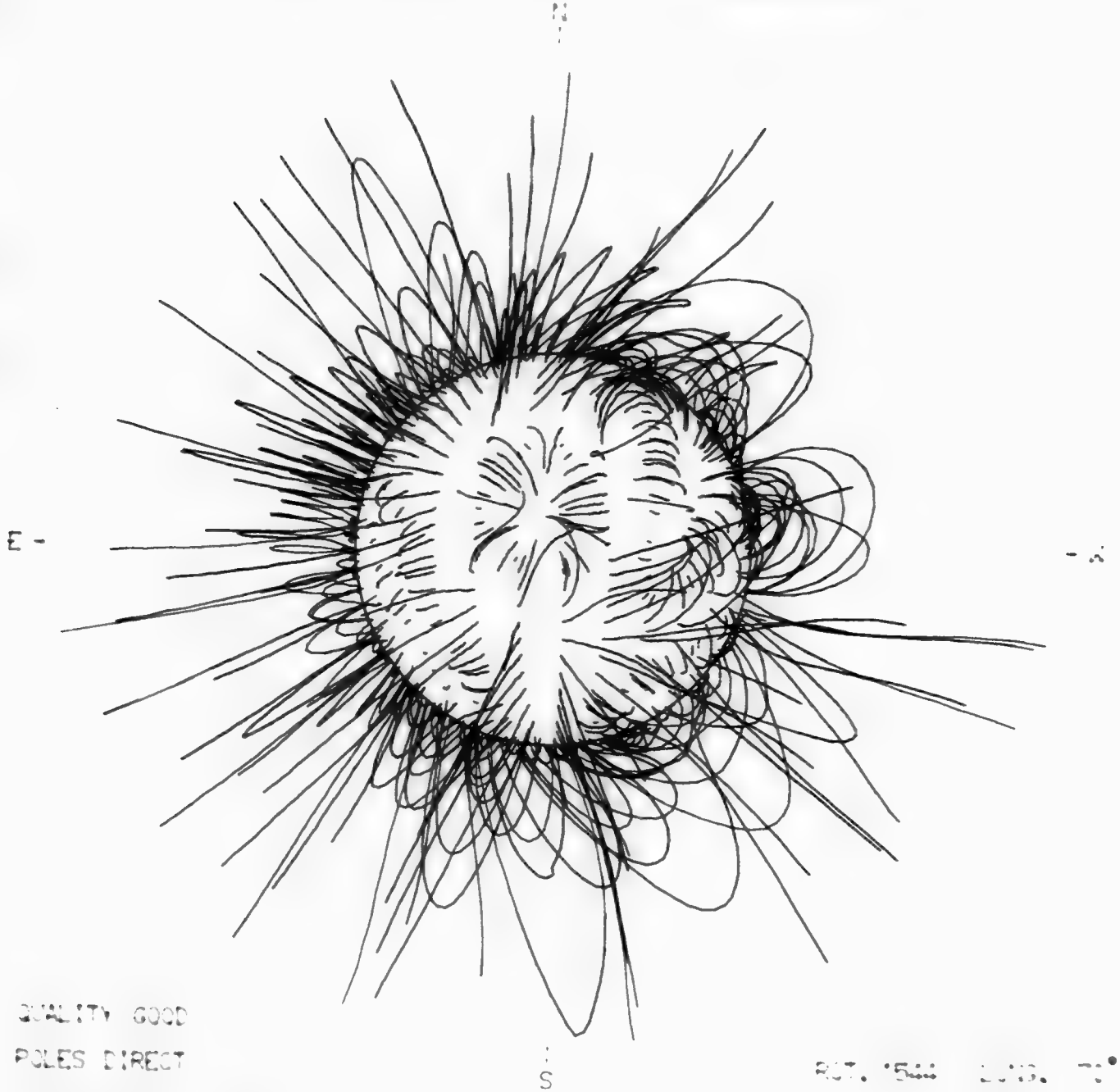
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



POLES DIRECT

DATA AVAILABLE 1544.47

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



QUALITY GOOD

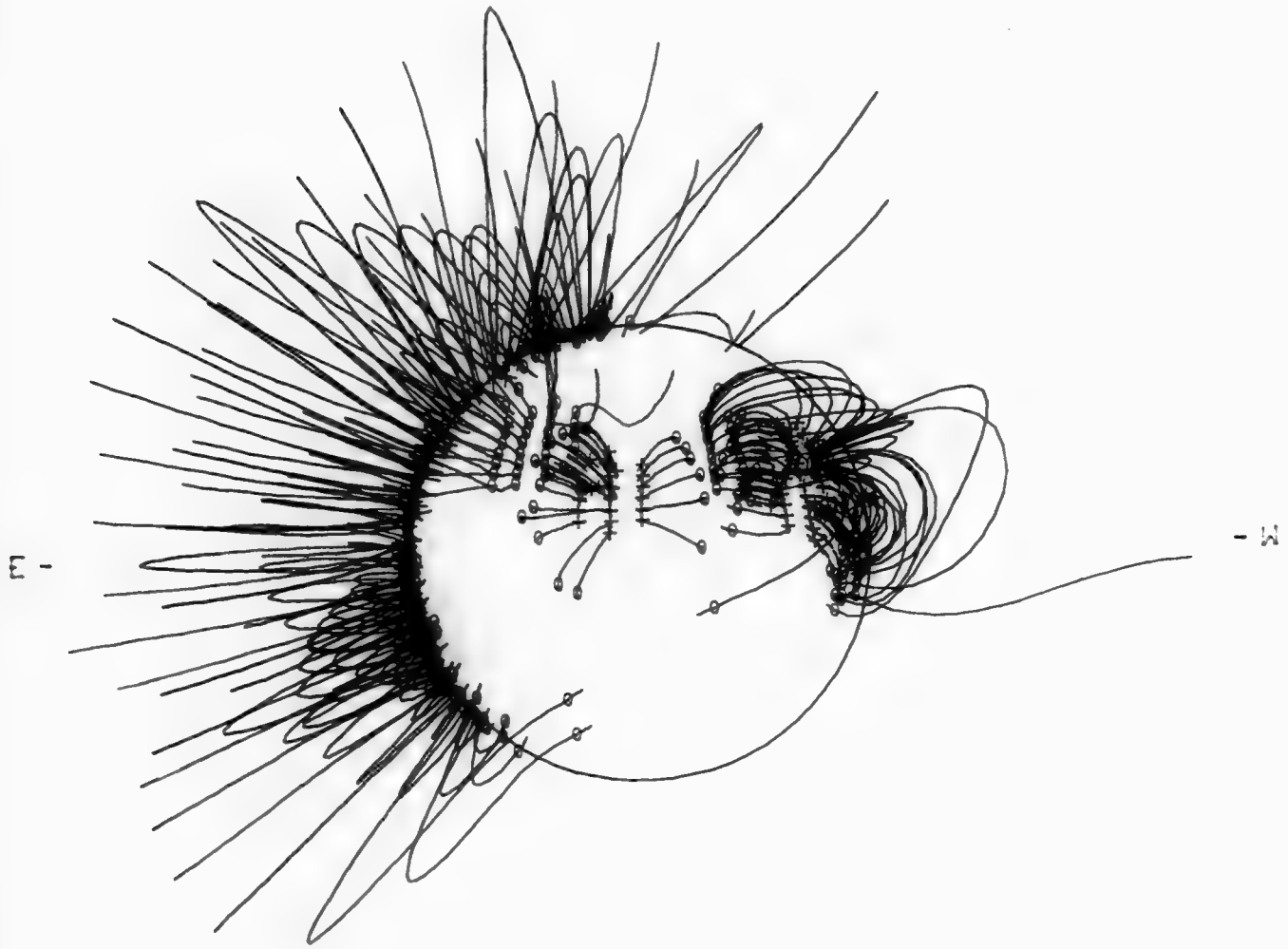
POLES DIRECT

DATA WINDOW 15:44.4"

ROT. 1544 LONG. 71°

22.7 FEB 1965

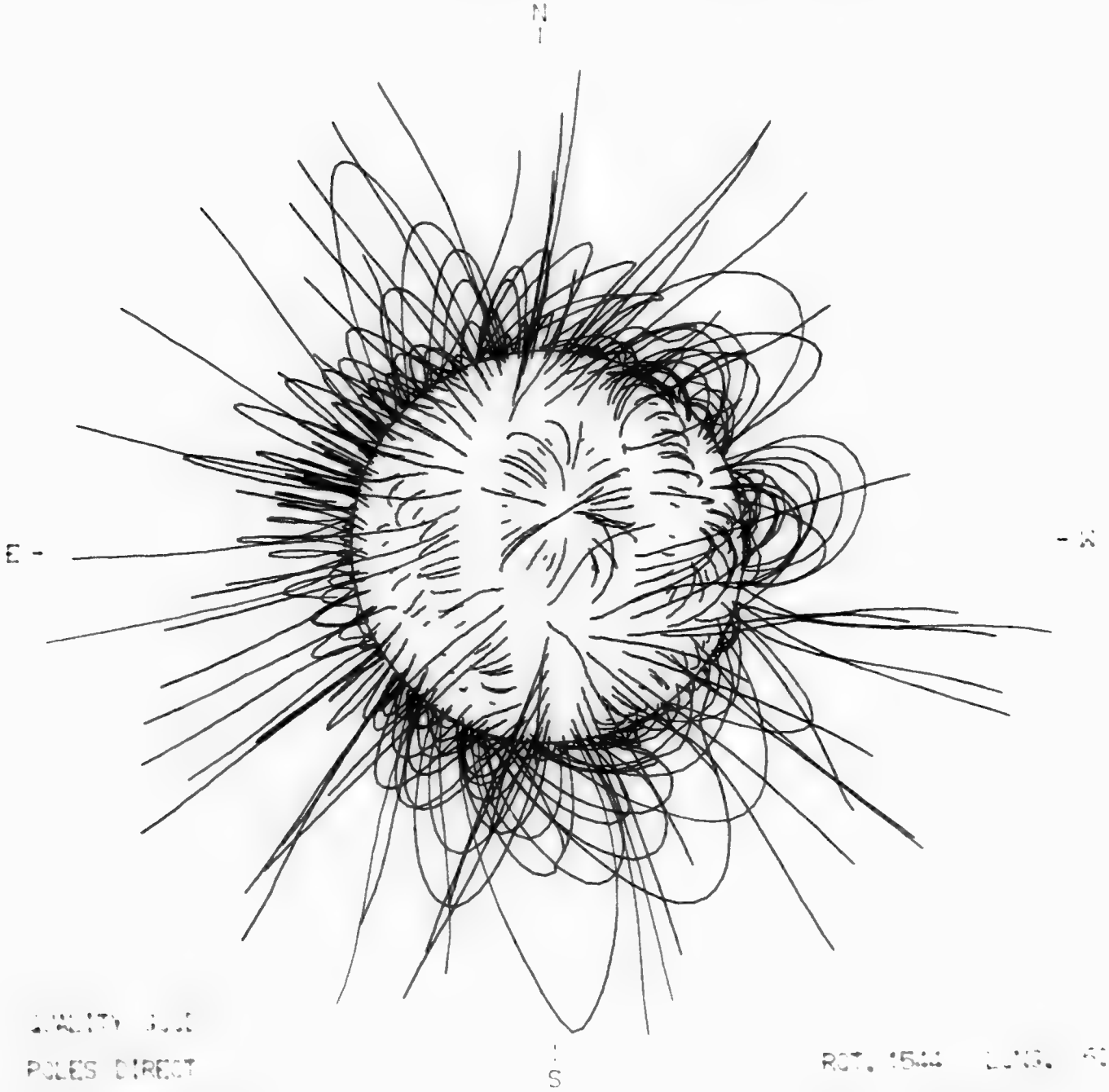
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



QUALITY GOOD
POLES DIRECT
DATA WINDOW 1544.47

ROT. 1544 LONG. 71°
22.7 FEB 1969

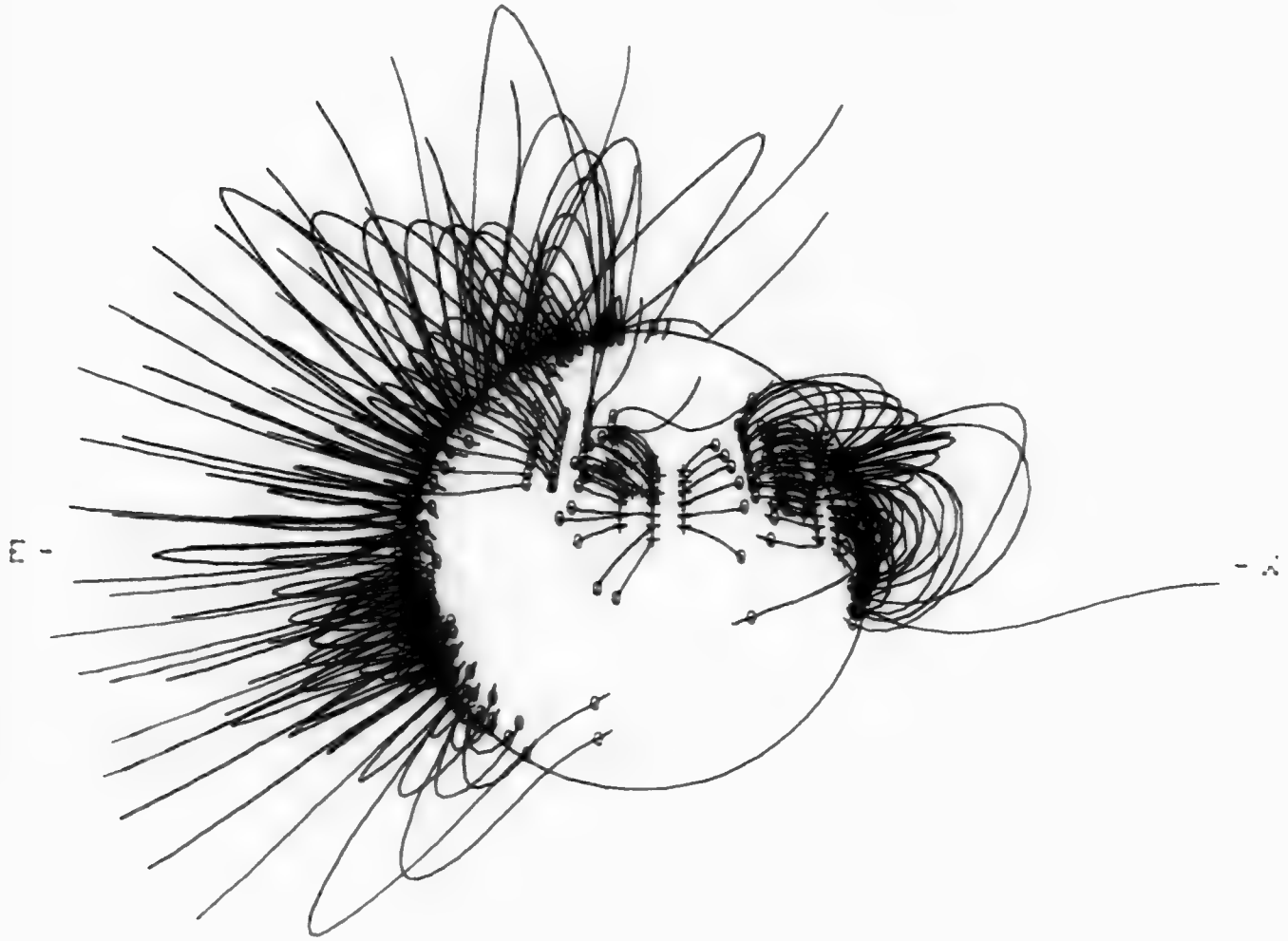
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



POLES DIRECT

23.5 FEB

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



[illegible]

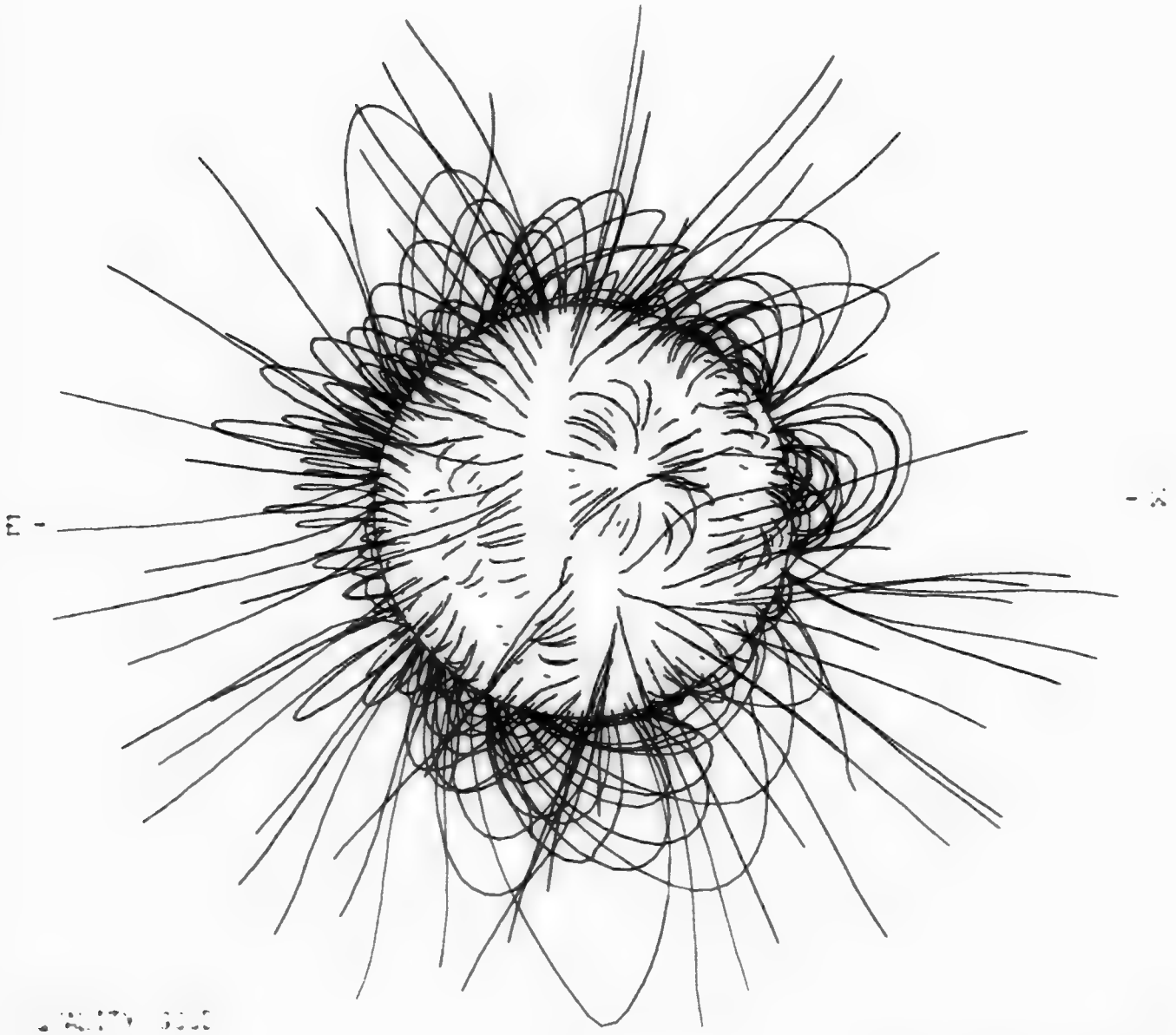
PULES DIRECT

[illegible]

[illegible]

25.5 FEB [illegible]

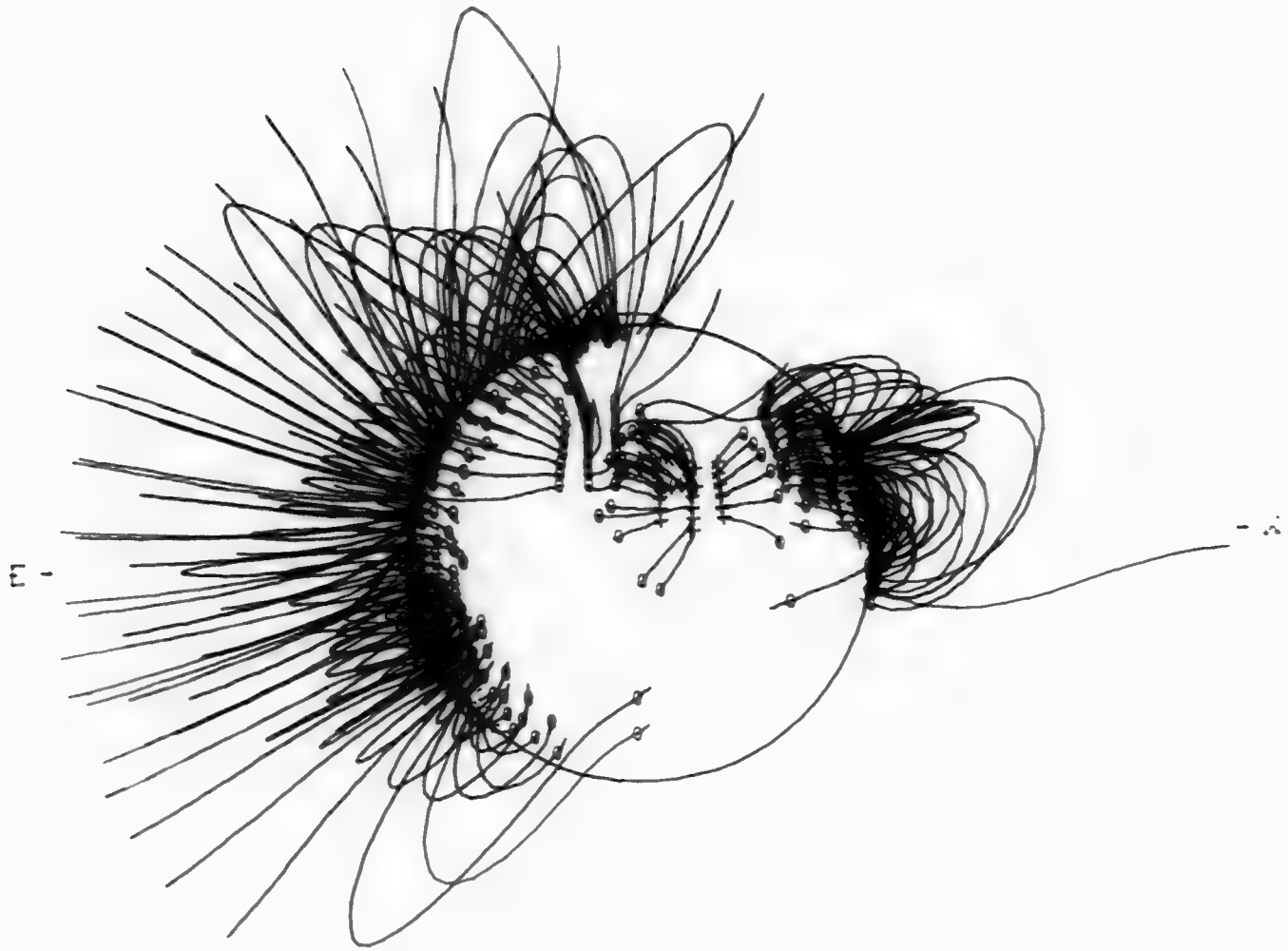
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



POLES DIRECT

24.2 FEB 1969

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



QUALITY GOOD

POLES DIRECT

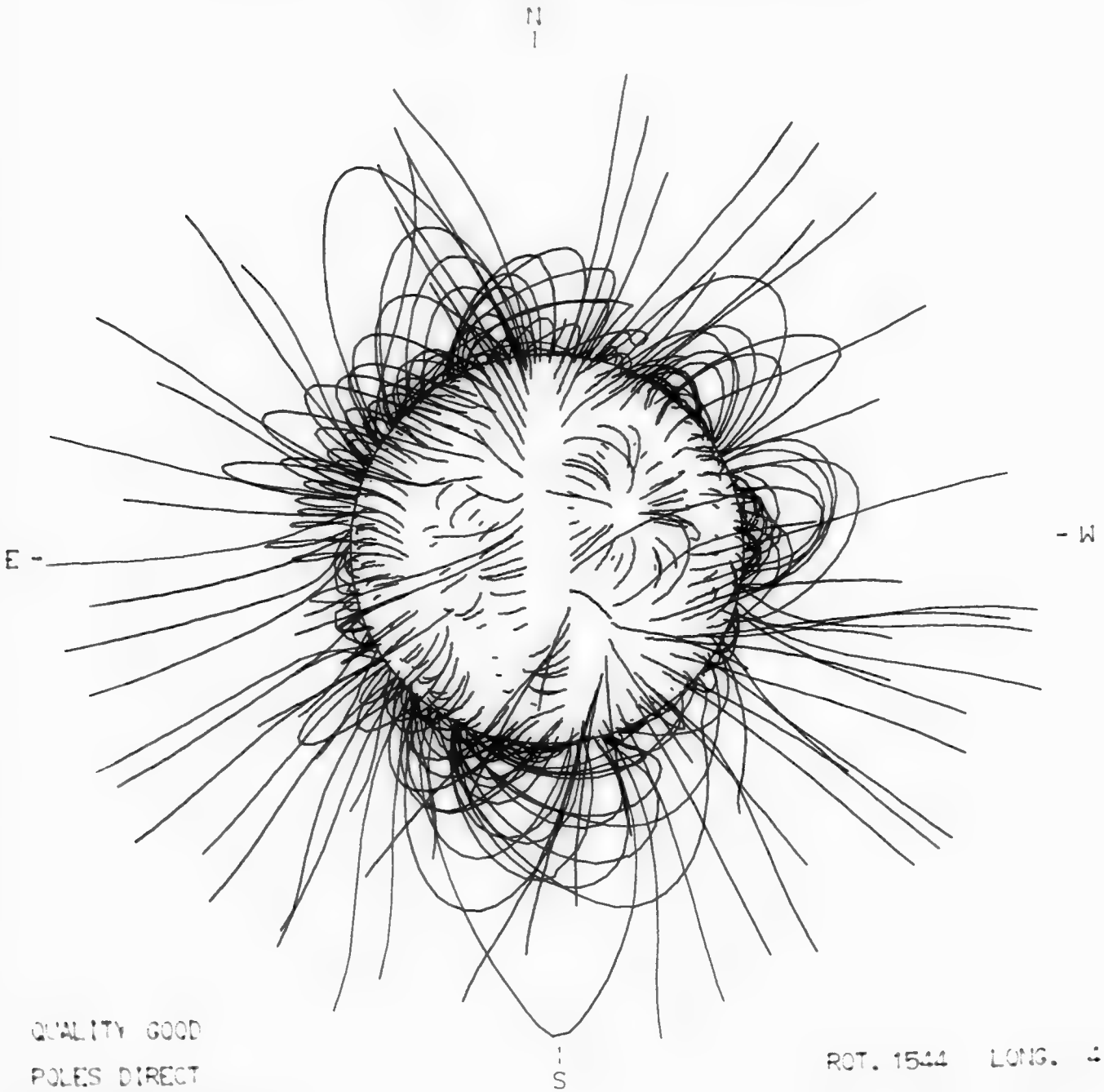
DATA WINDOW 1544.4"

S

R.T. 1544 [illegible] 5°

24.0 FEB [illegible]

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



QUALITY GOOD

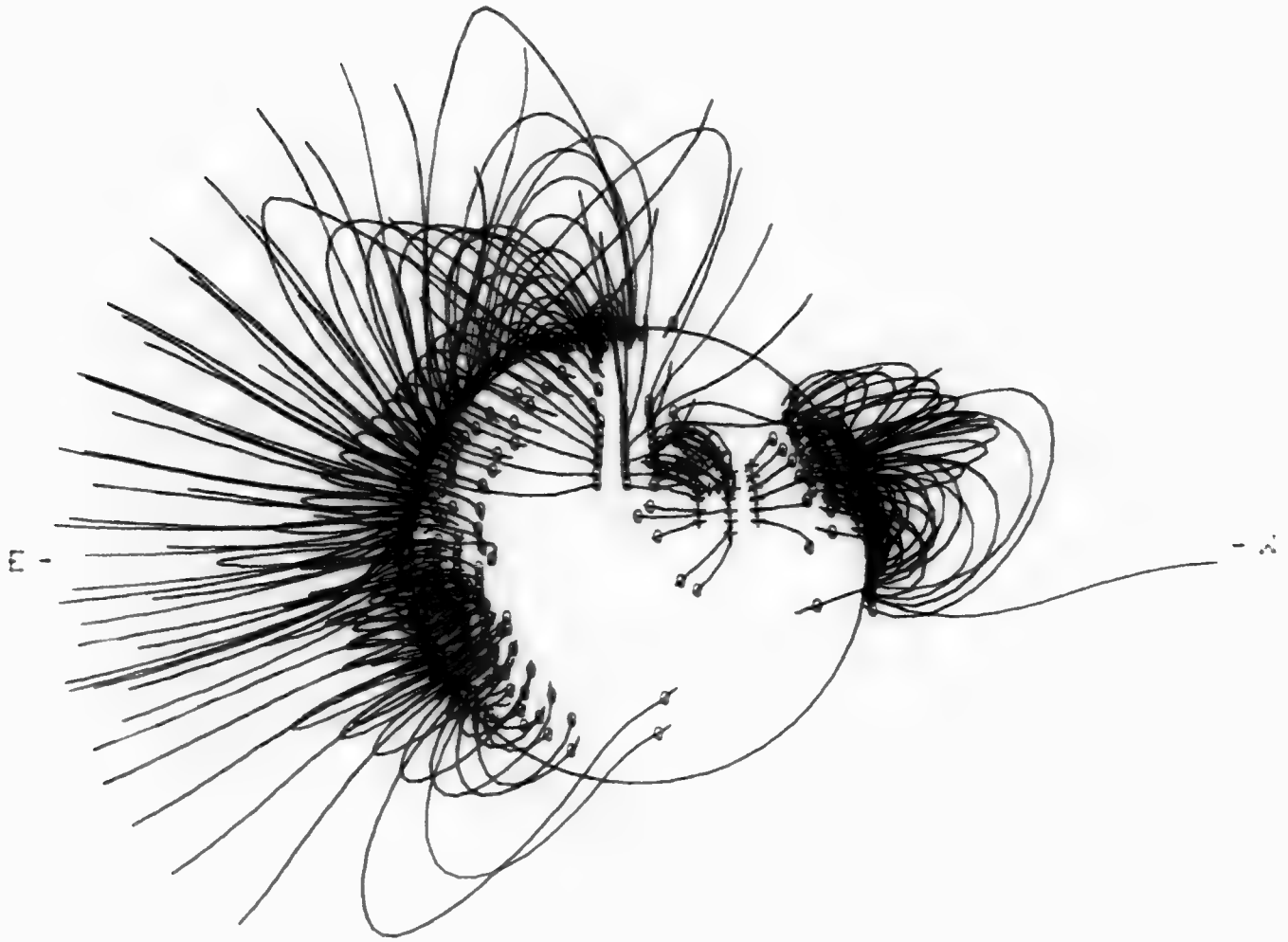
POLES DIRECT

DATA WINDOW 1544.47

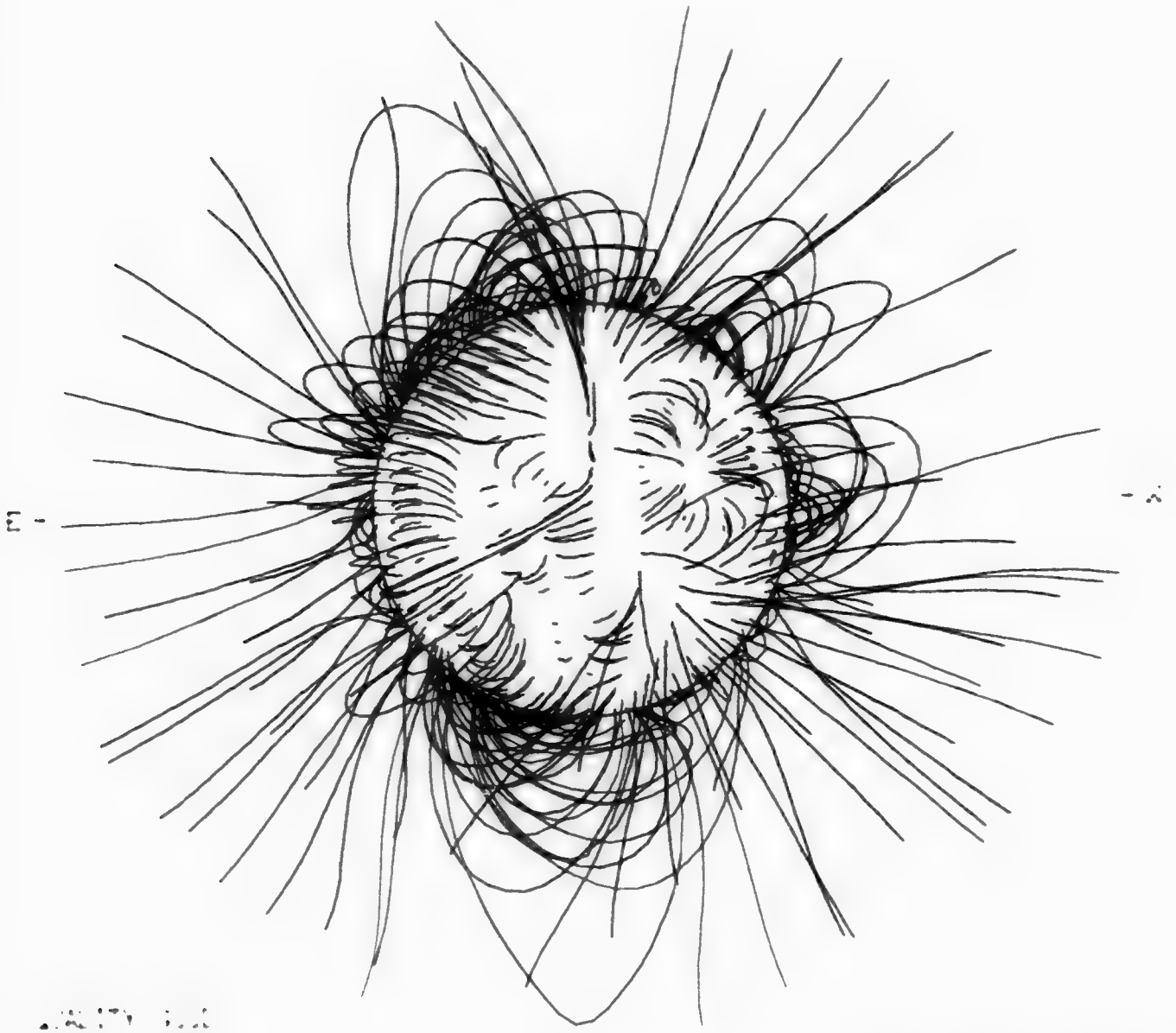
ROT. 1544 LONG. 40°

25.0 FEB 1969

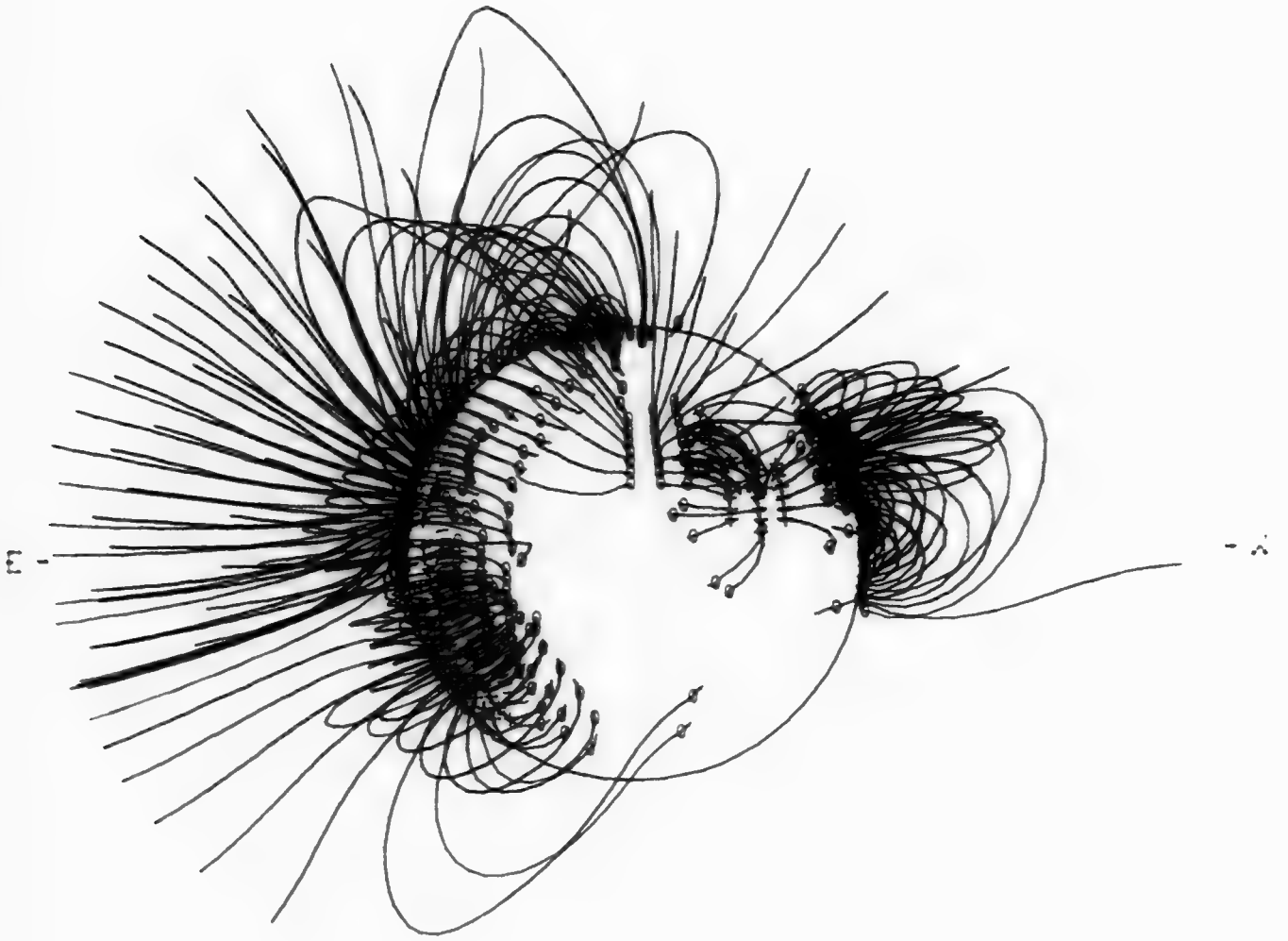
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



QUALITY GOOD

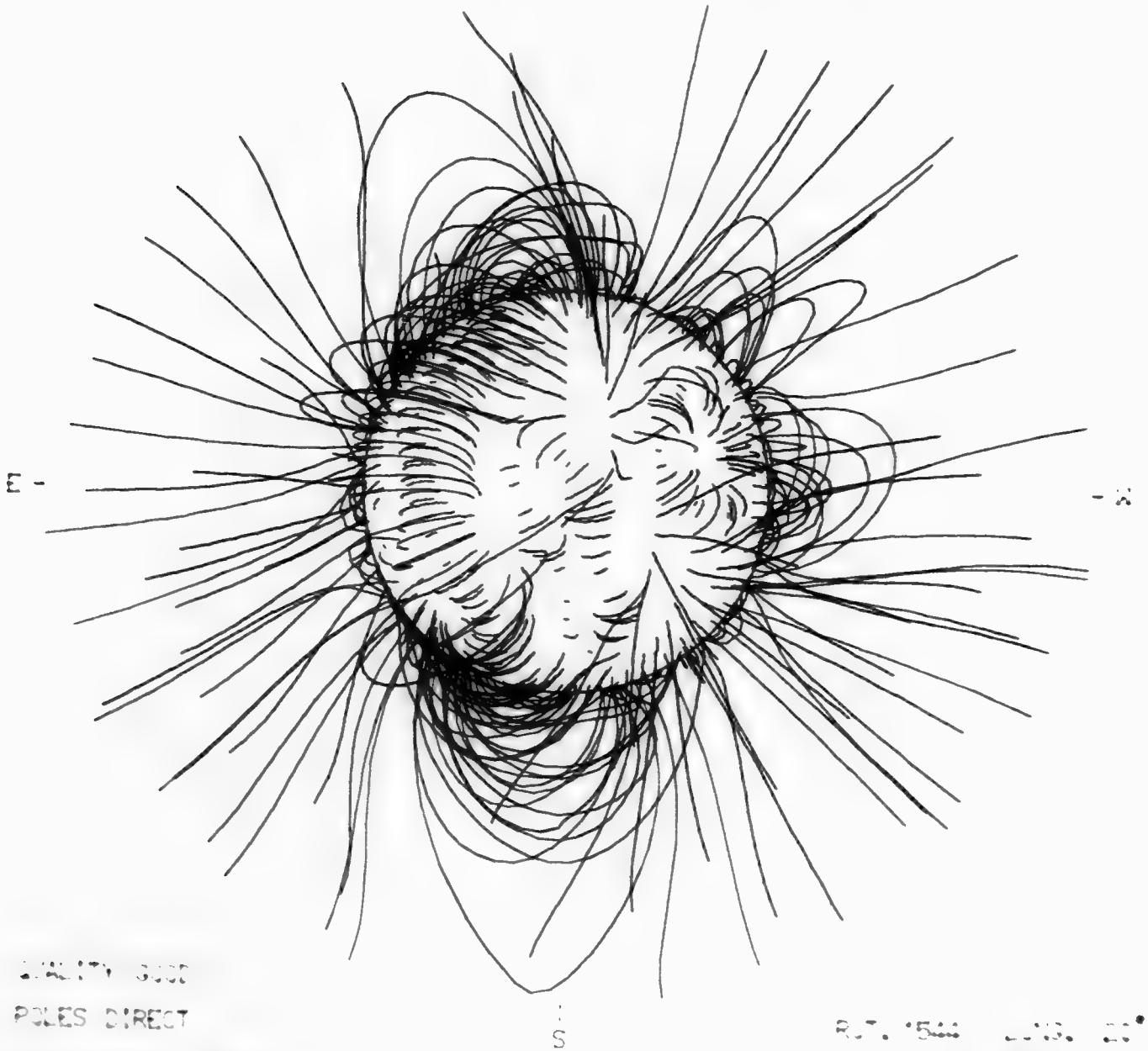
FILTER DIRECT

DATA ACQUIRED 1544.47

ROT. 1544 LONG. 35°

25.8 FEB 1969

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



QUALITY GOOD

POLES DIRECT

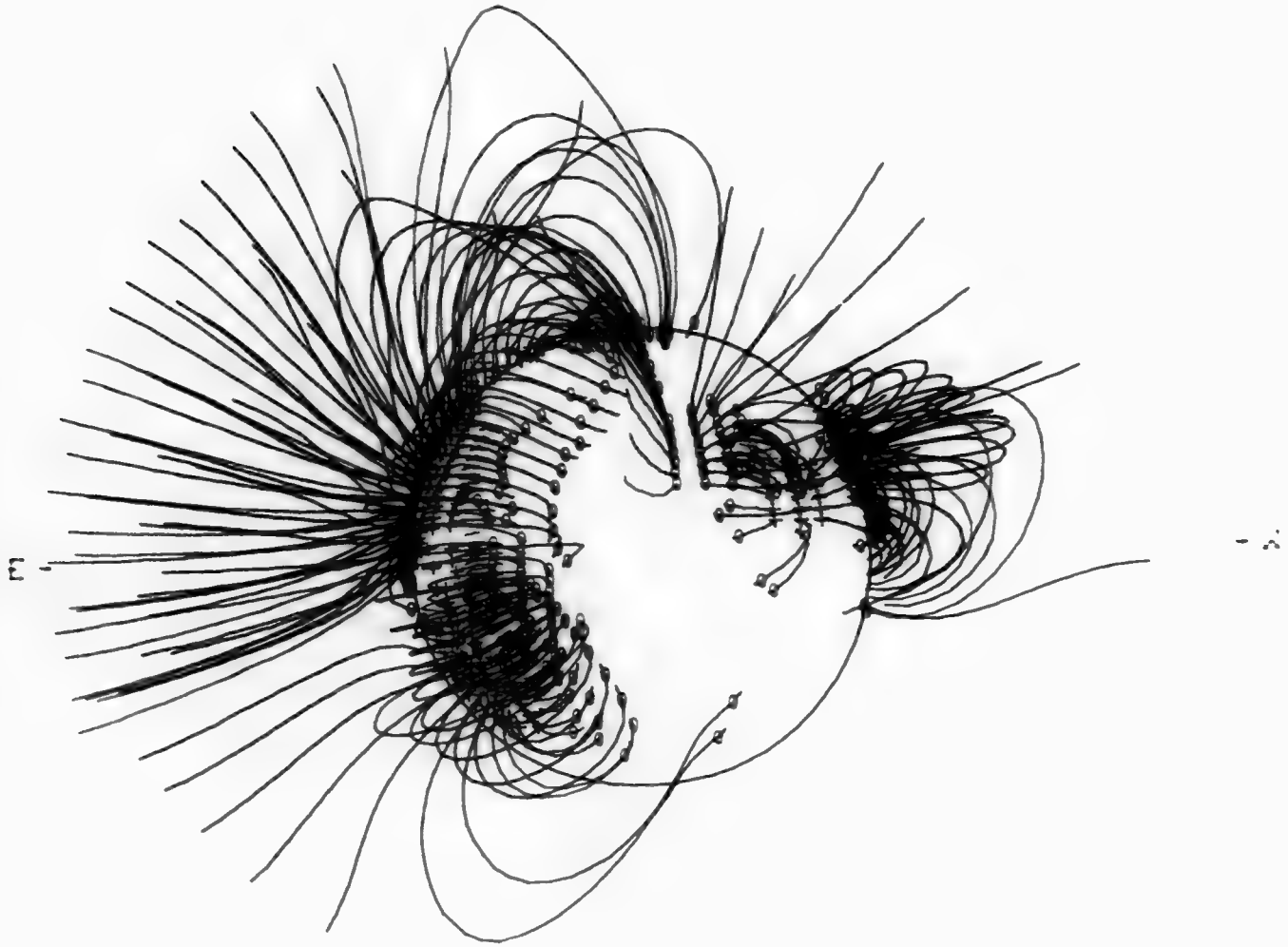
DATA WINDOW 1544.4

R.T. 1544 LONG. 21°

25.5 FEB 1969

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N



E

S

QUALITY GOOD

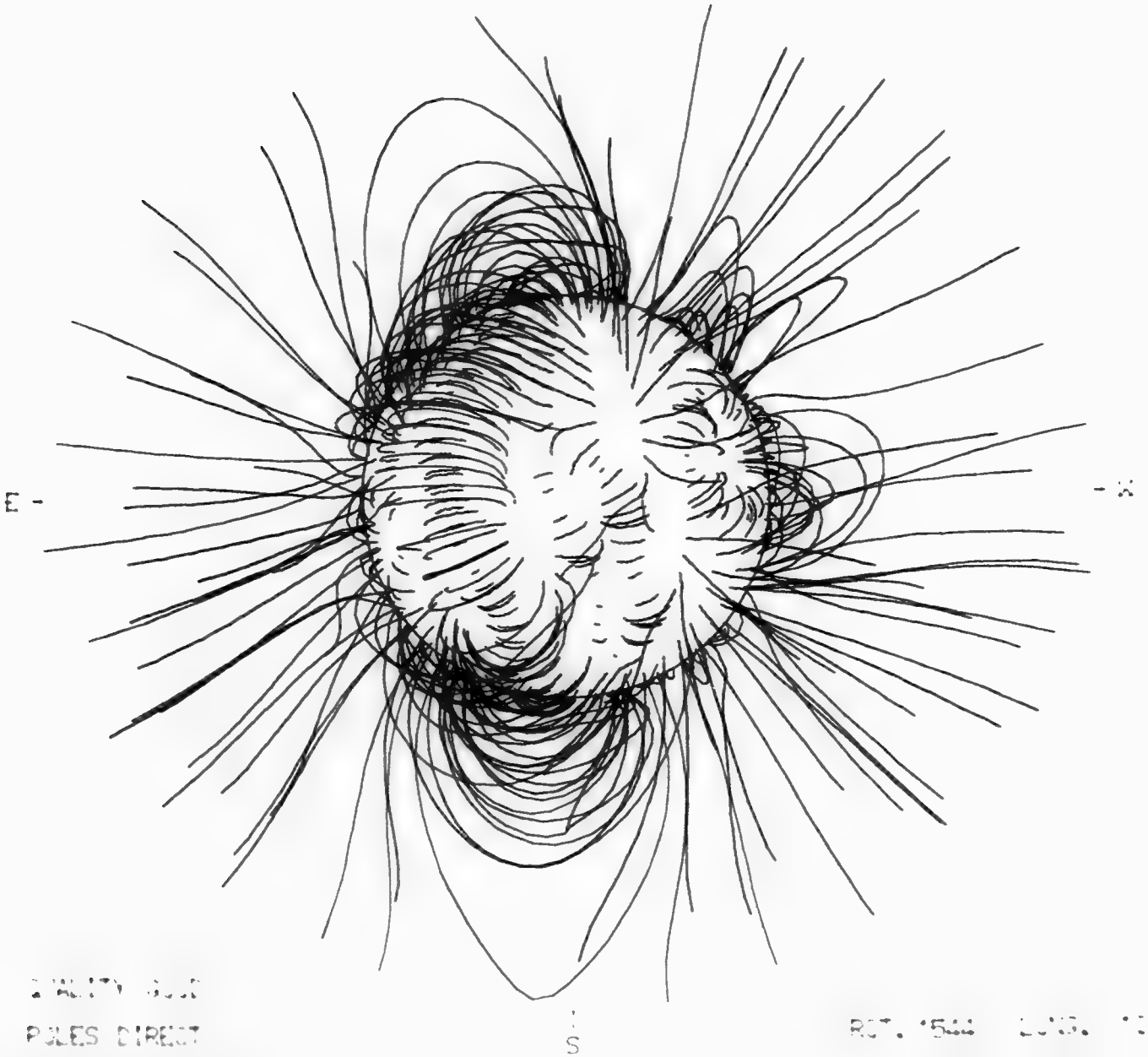
POLES DIRECT

DATA AT[illegible] '5[illegible]

R.T. '5[illegible]

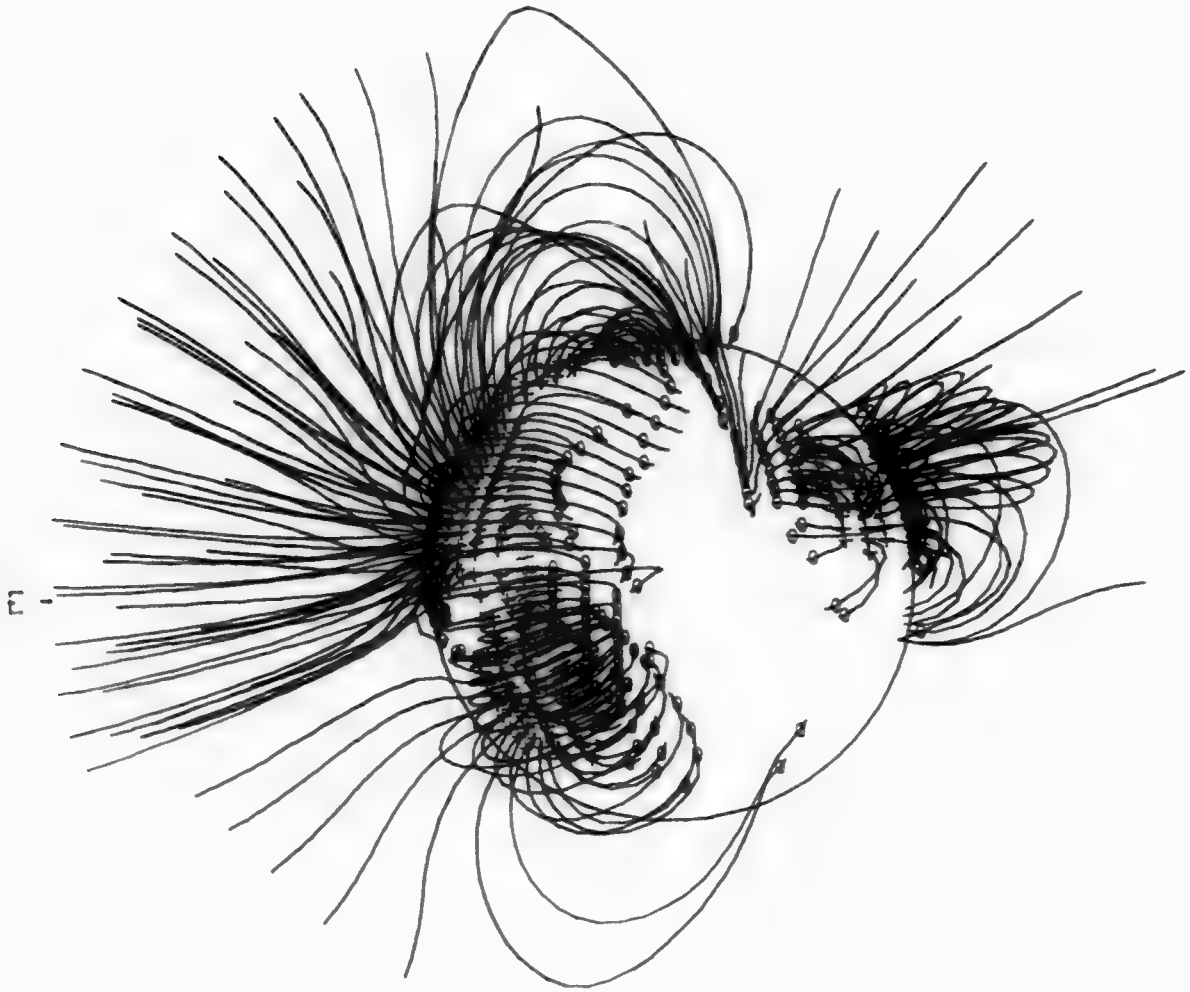
26.5 FEB '9[illegible]

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

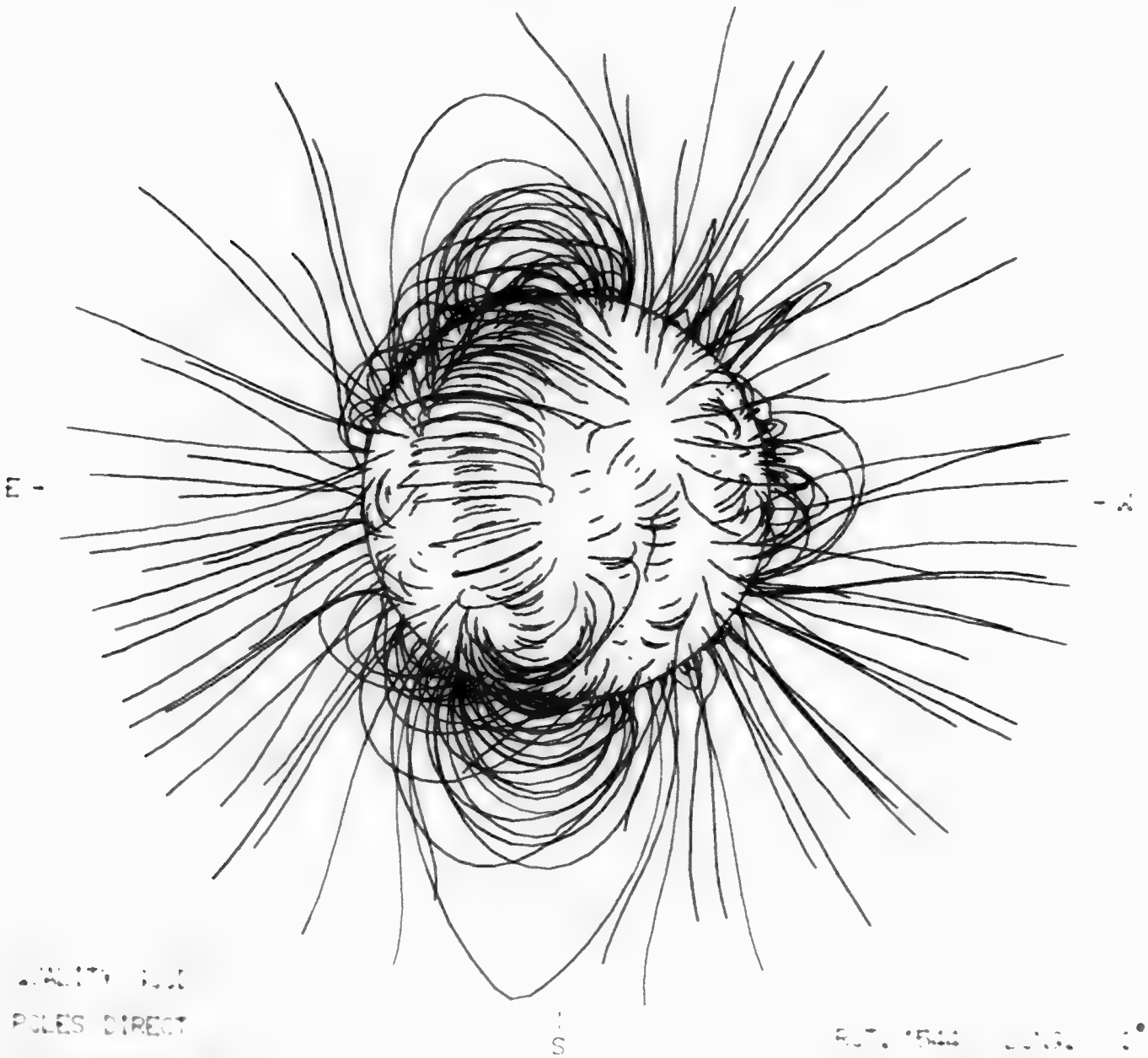


POLES DIRECT

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

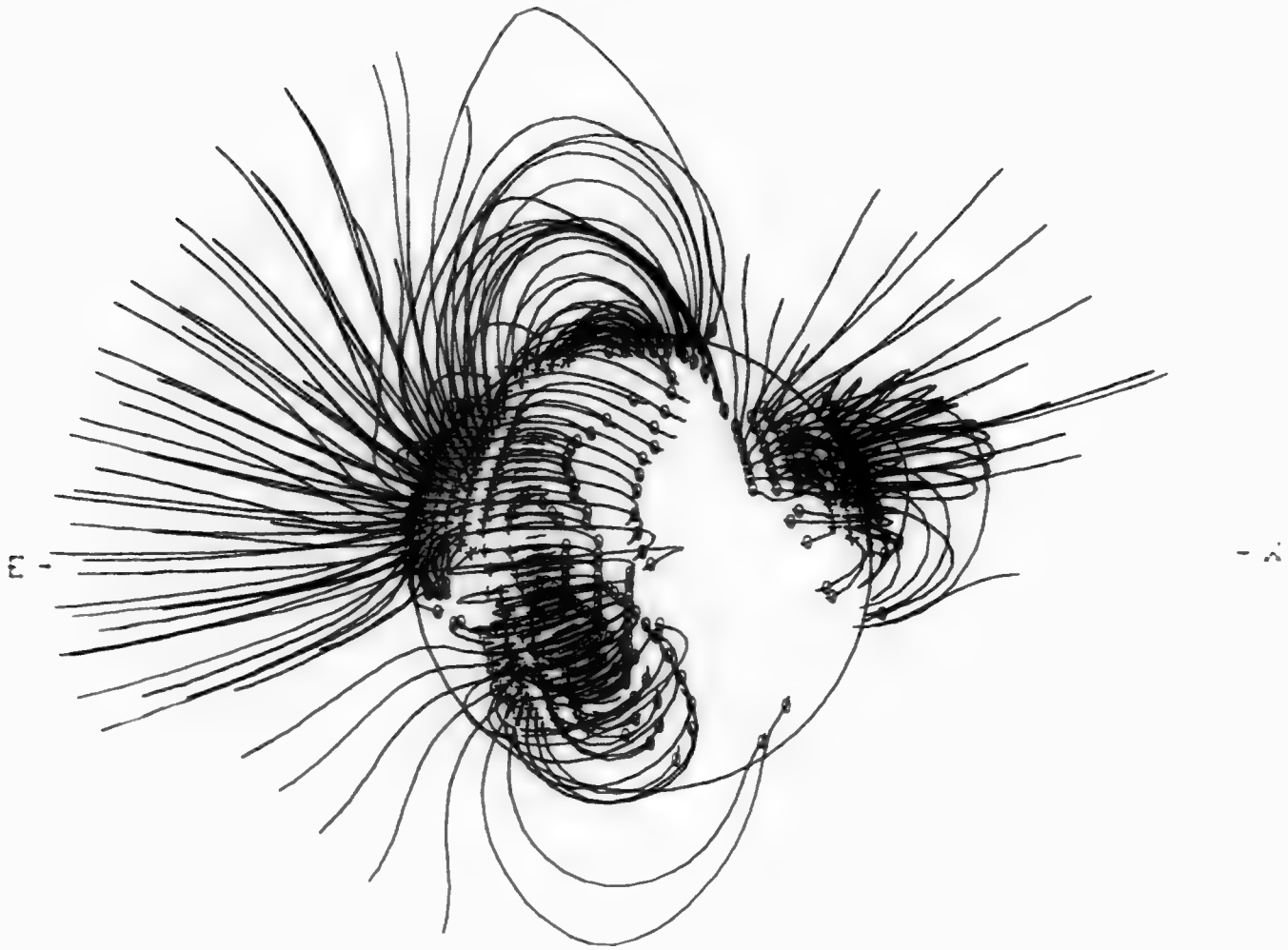


HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



POLES DIRECT

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



QUALITY GOOD

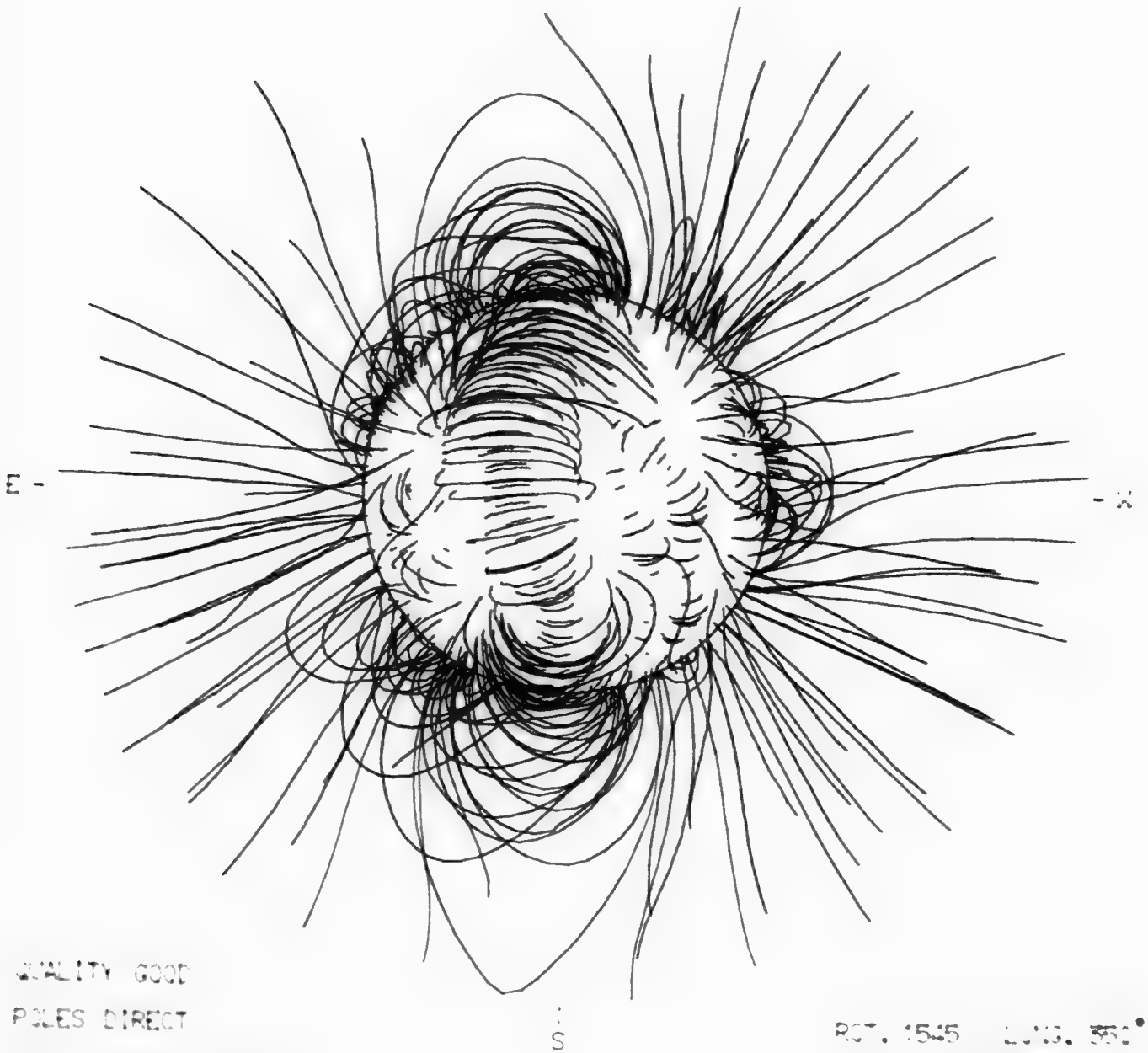
PLOTS DIRECT

DATA WINDOW 1544.47

R.T. 1544 2010. 0°

28.0 FEB 1964

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



QUALITY GOOD

POLES DIRECT

DATA WINDOW 1544.4T

ROT. 1545 LONG. 351°

28.8 FEB 1969

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

QUALITY GOOD

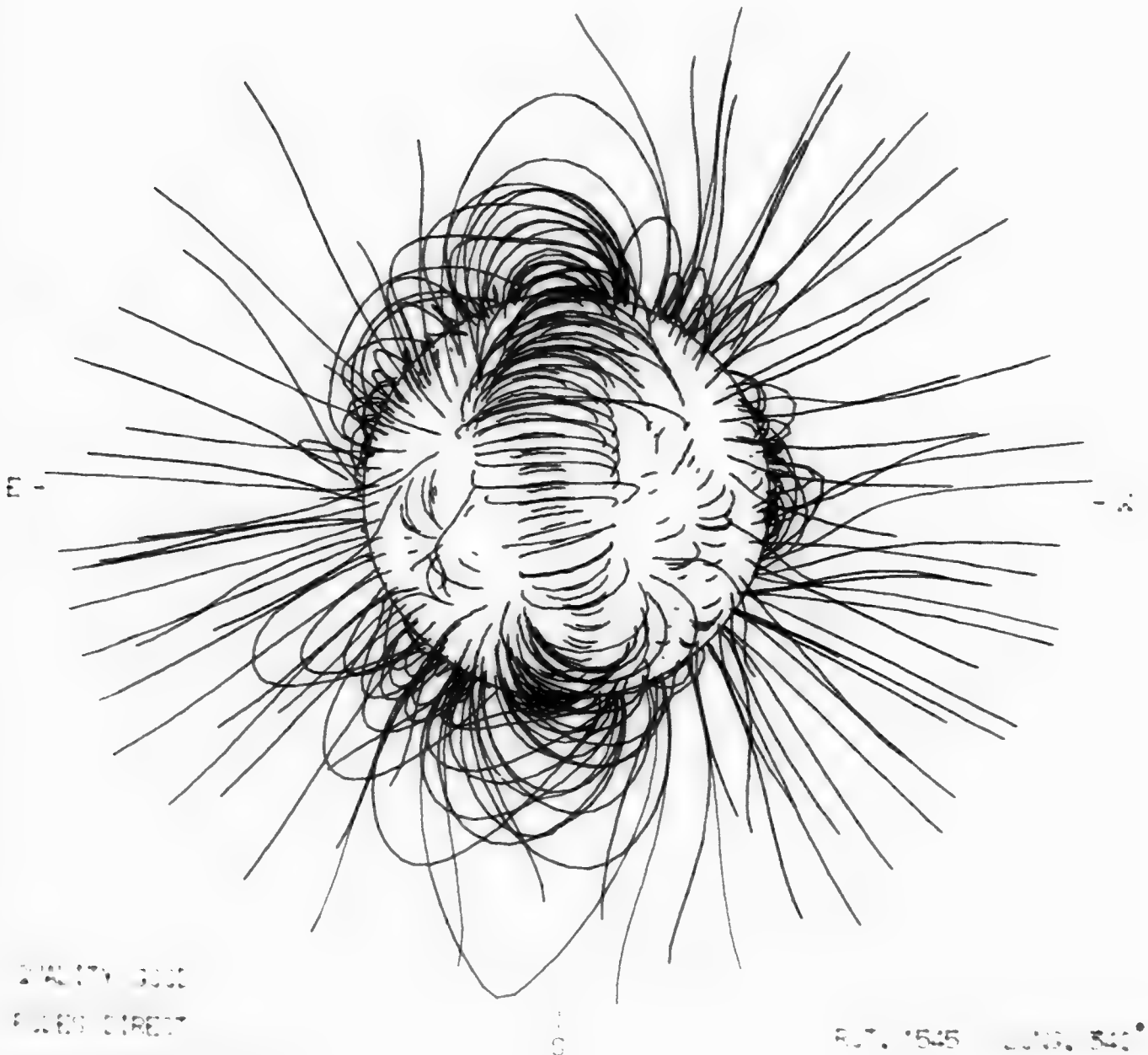
FILES DIRECT

DATA WINDOW [illegible]

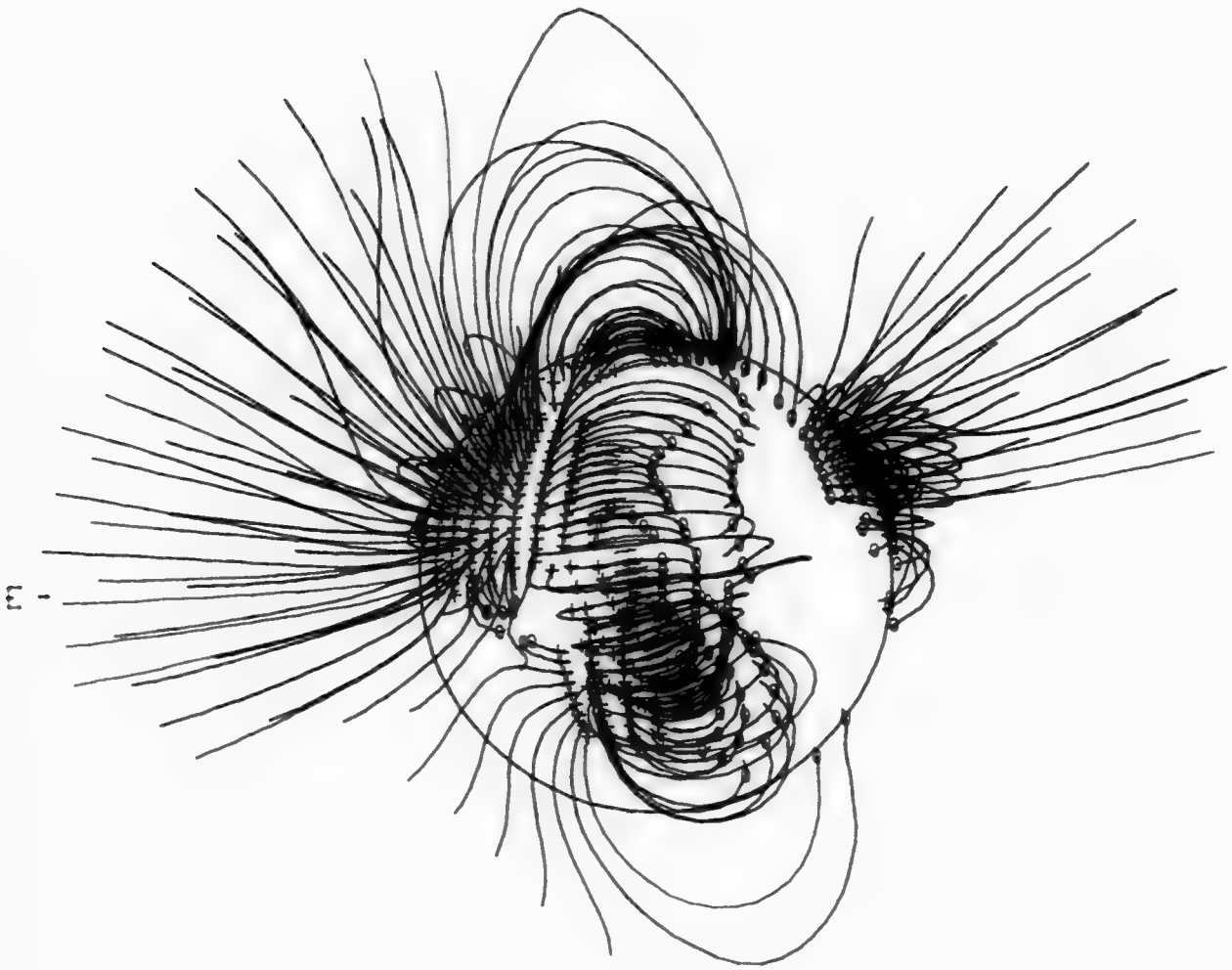
ROT. 1545 LONG. [illegible]°

28.8 FEB 1969

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



QUALITY GOOD

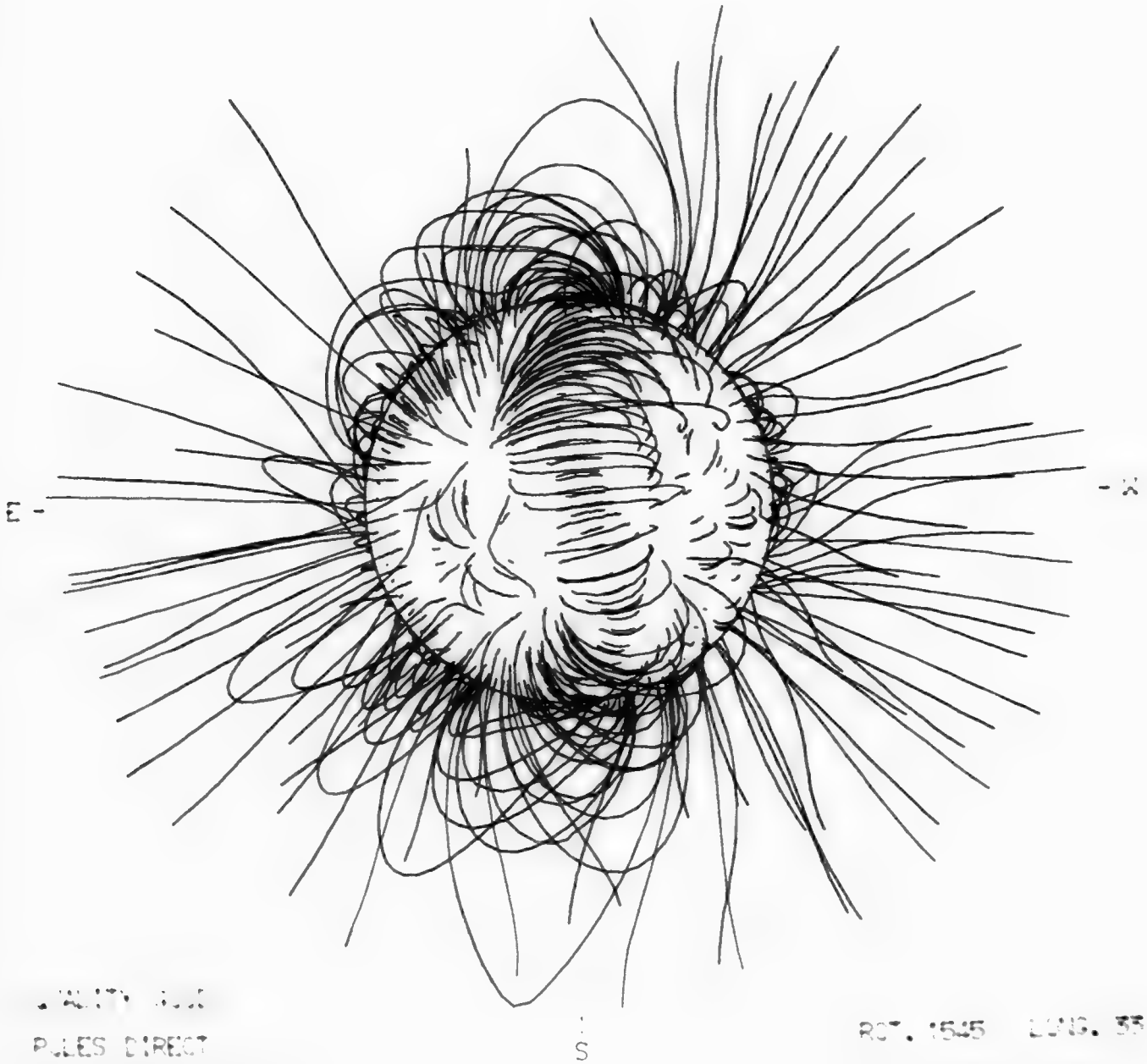
POLES DIRECT

DATA WINDOW 1544.4"

R.T. 1545 L.O.S. 341°

.5 MAP

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

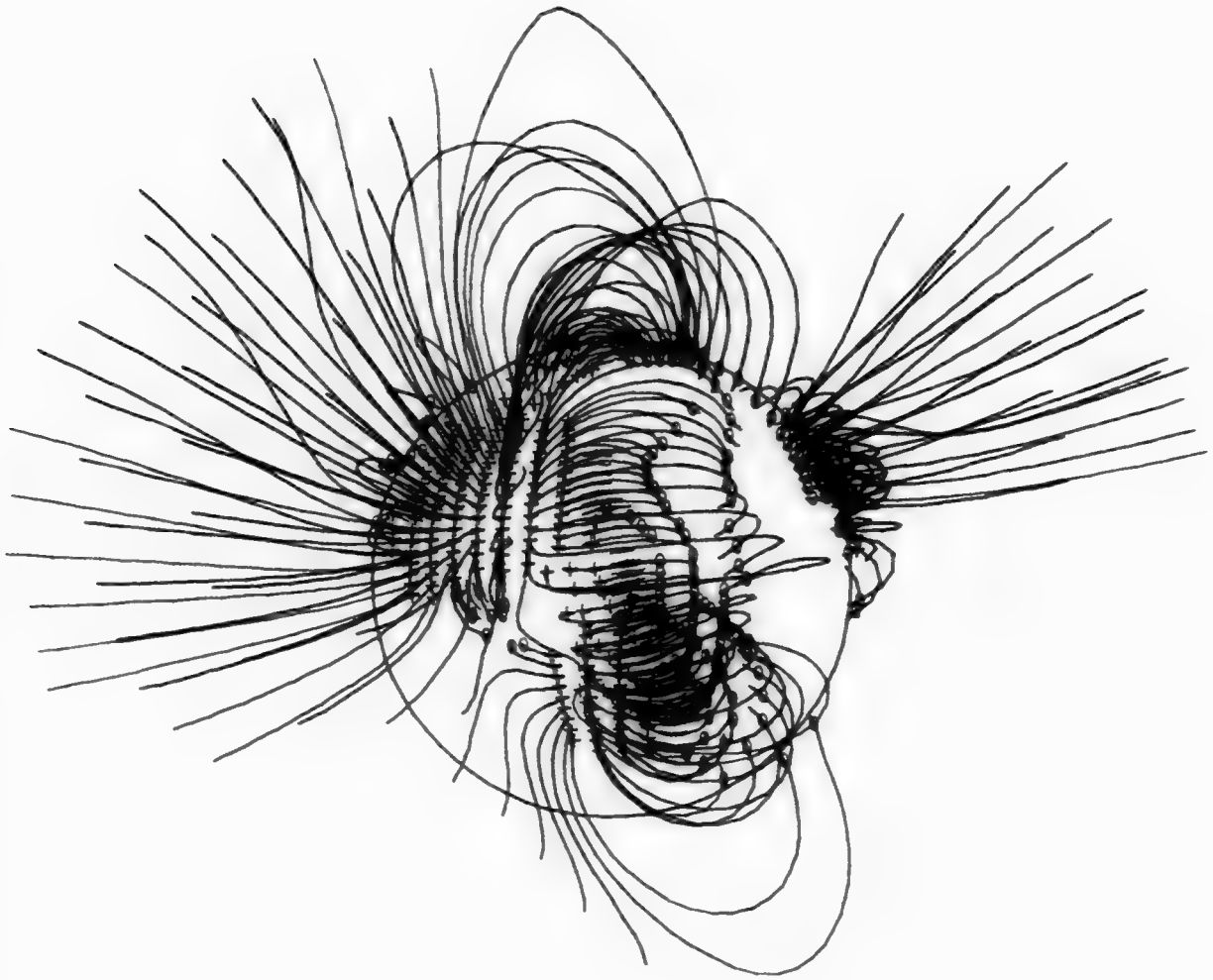


RULES DIRECT

ROT. 1545 LONG. 35°

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N



E -

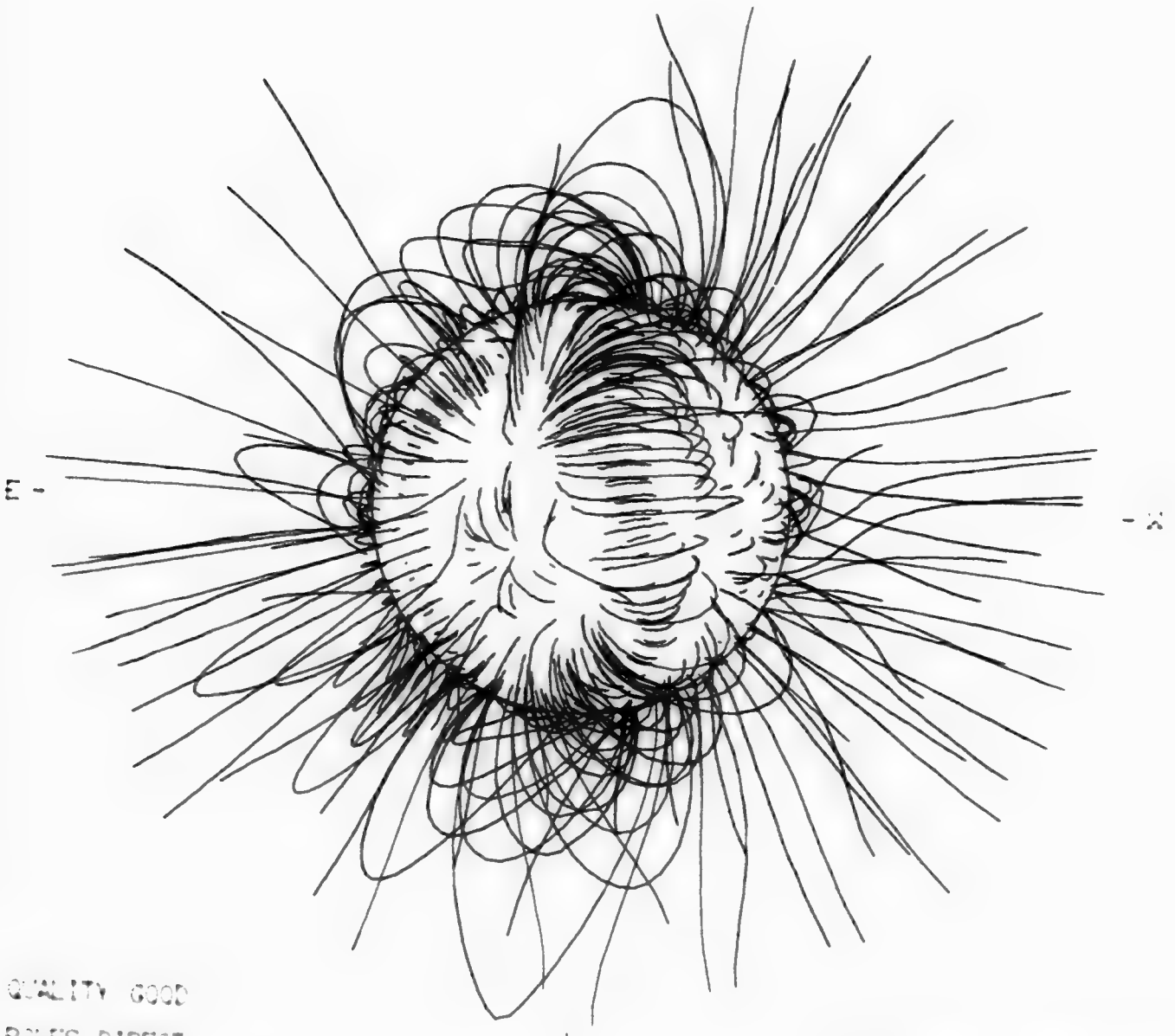
- W

S

R.T. 1545 L.O.S. 55°

2.3 MAR 1969

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



QUALITY GOOD

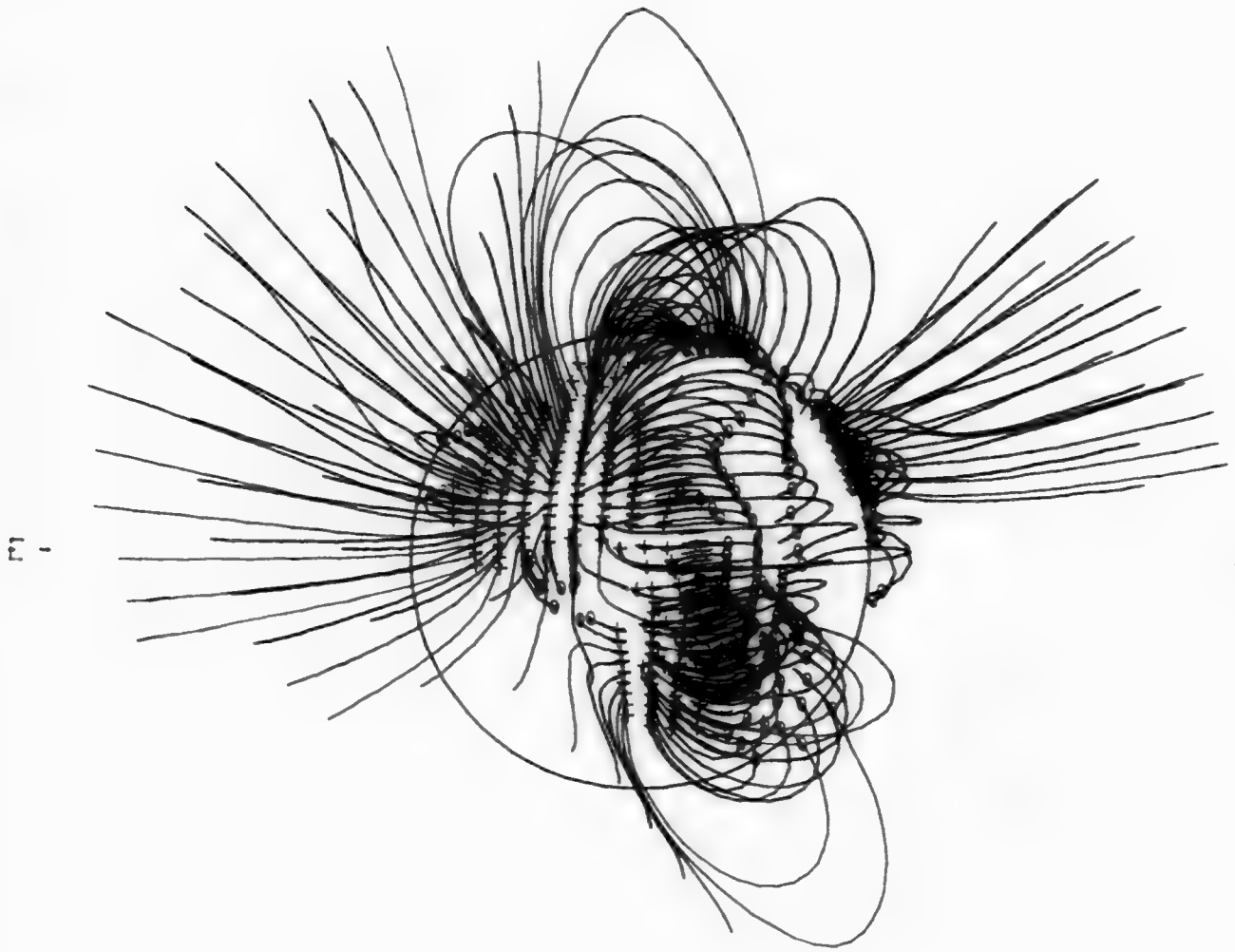
POLES DIRECT

DATA WINDOW 1544.47

ROT. 1545 LONG. 301°

3 MAR 1969

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



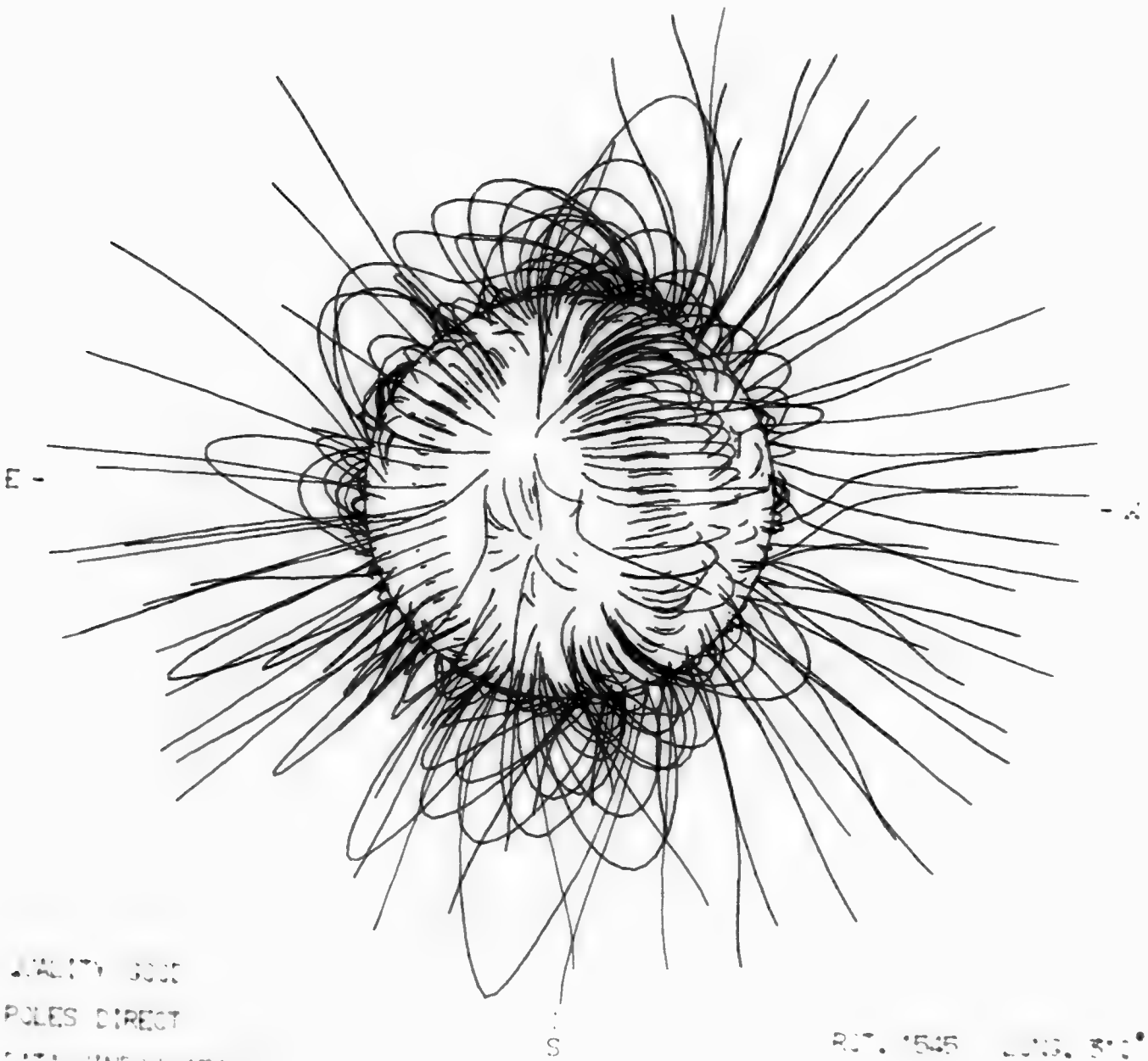
QUALITY [illegible]

POLES DIRECT

DATA [illegible]

[illegible]

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



QUALITY GOOD

POLES DIRECT

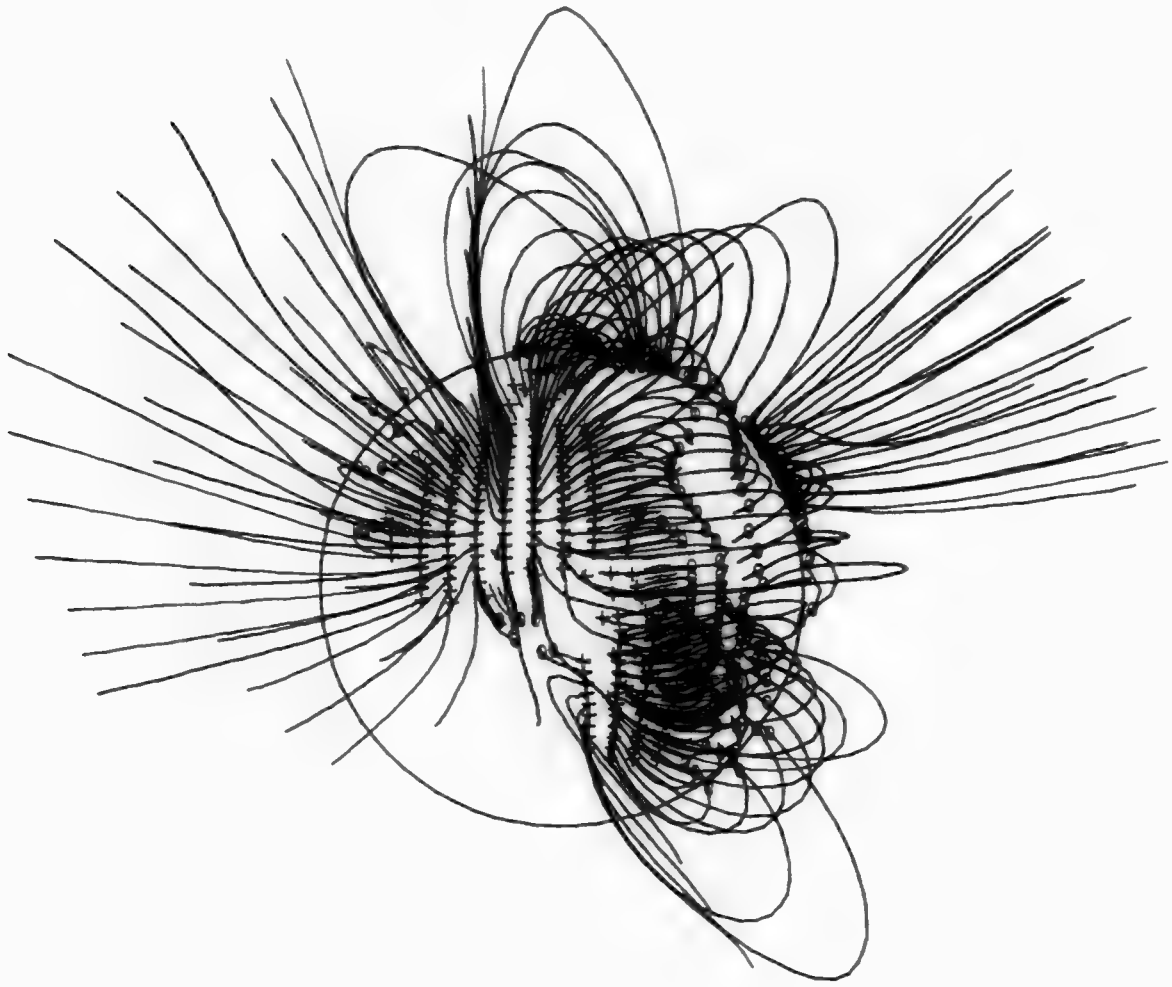
DATA WINDOW 1544.47

ROT. 1545

3.8 MAR

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N

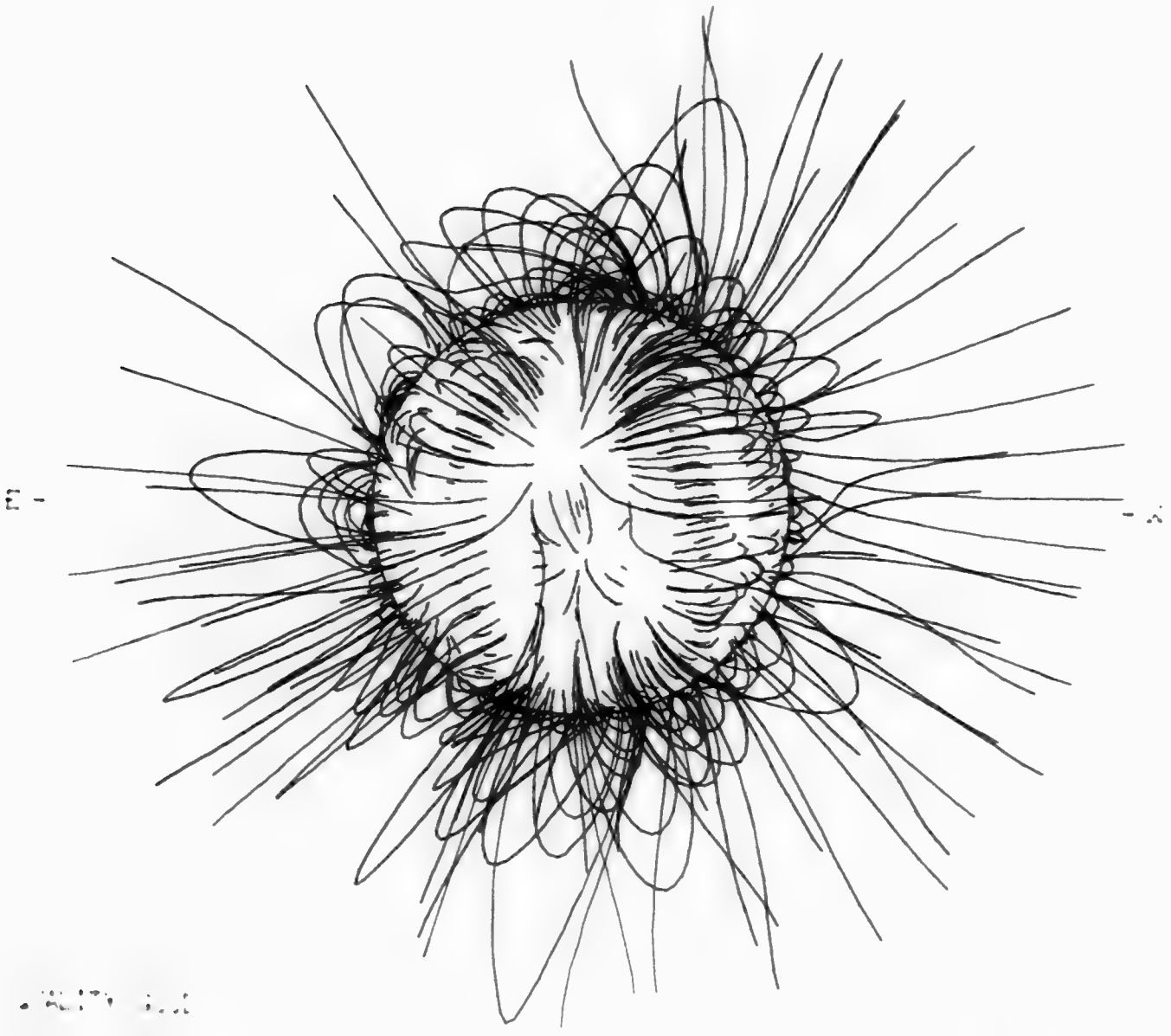


E -

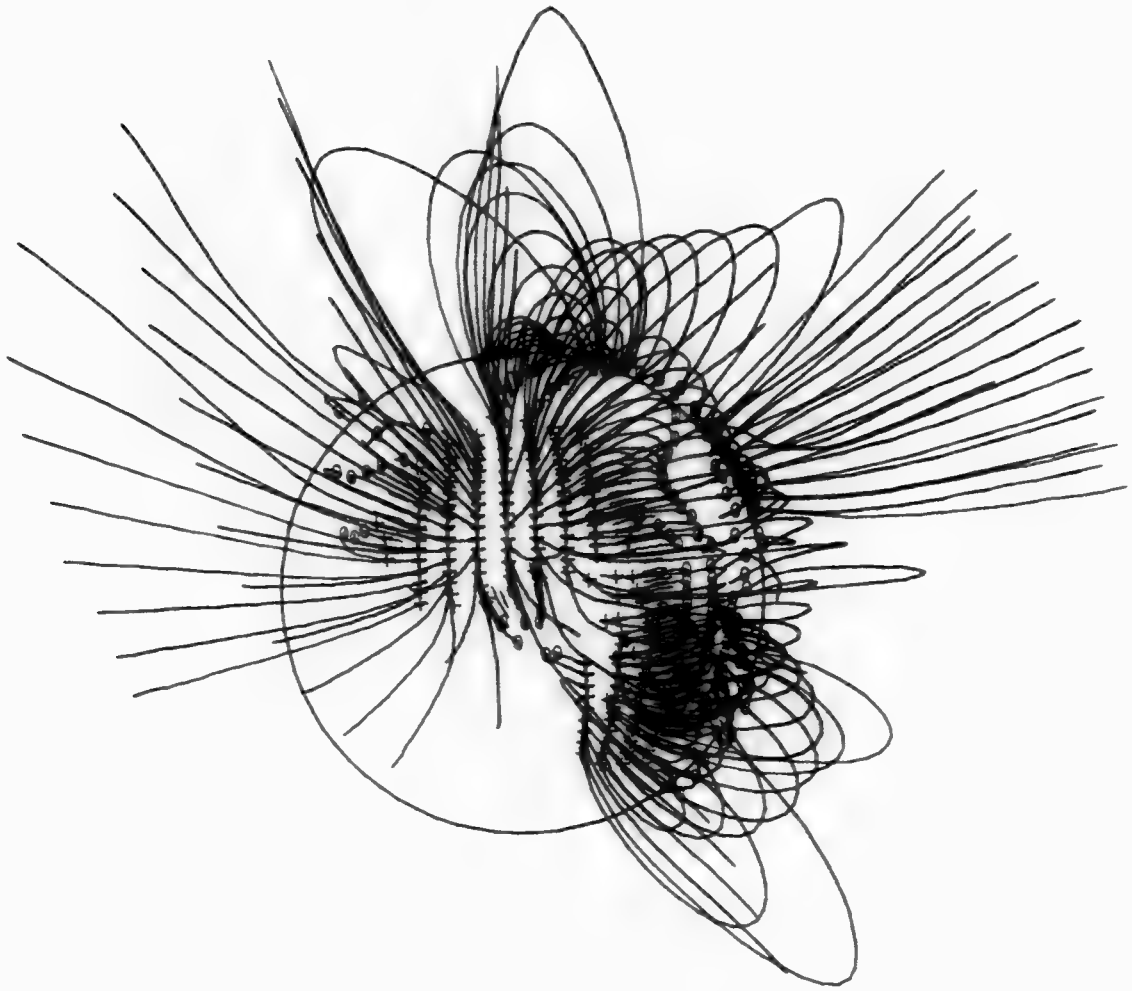
- A

S

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



E -

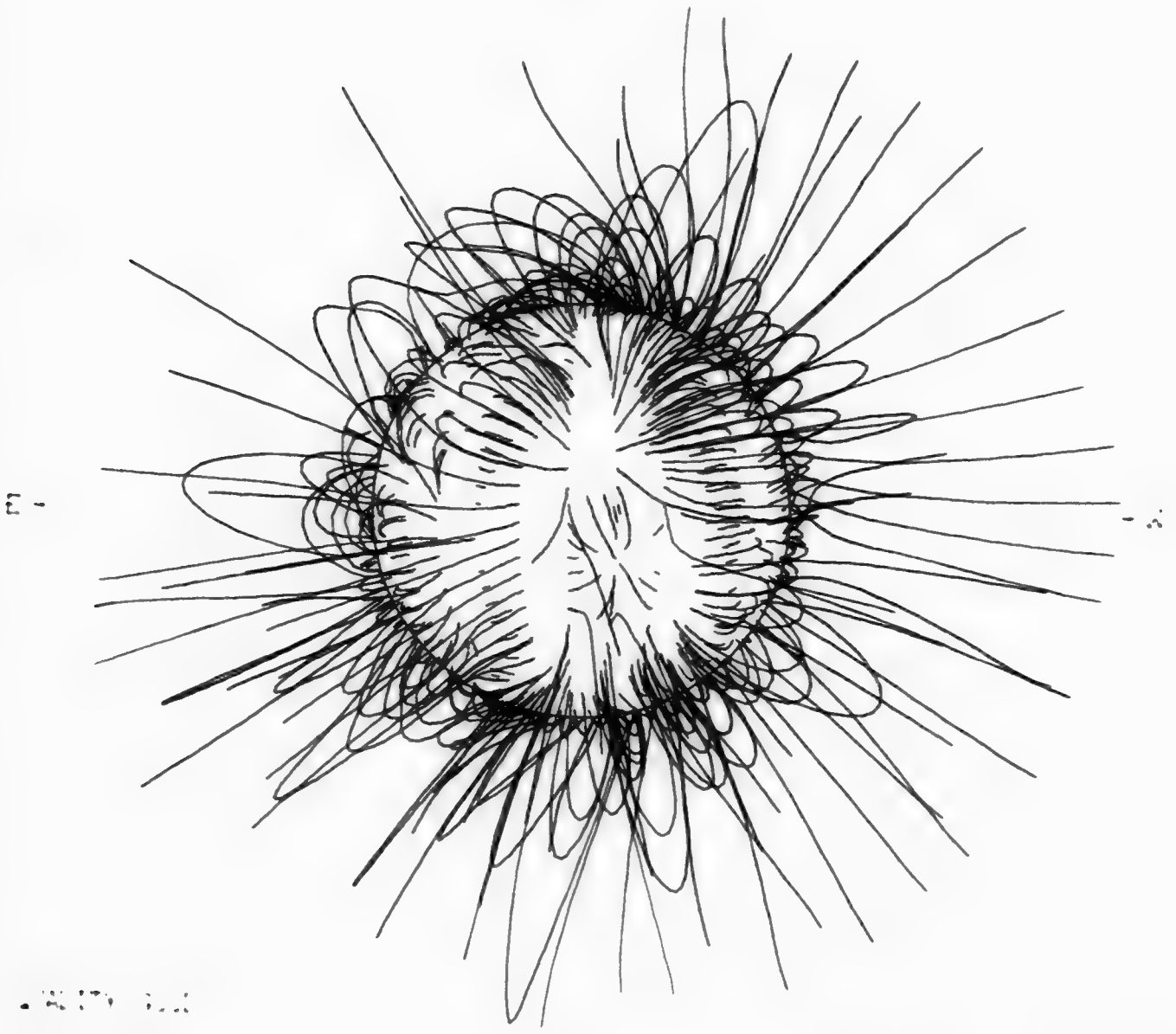
- A

S

RULES DIRECT

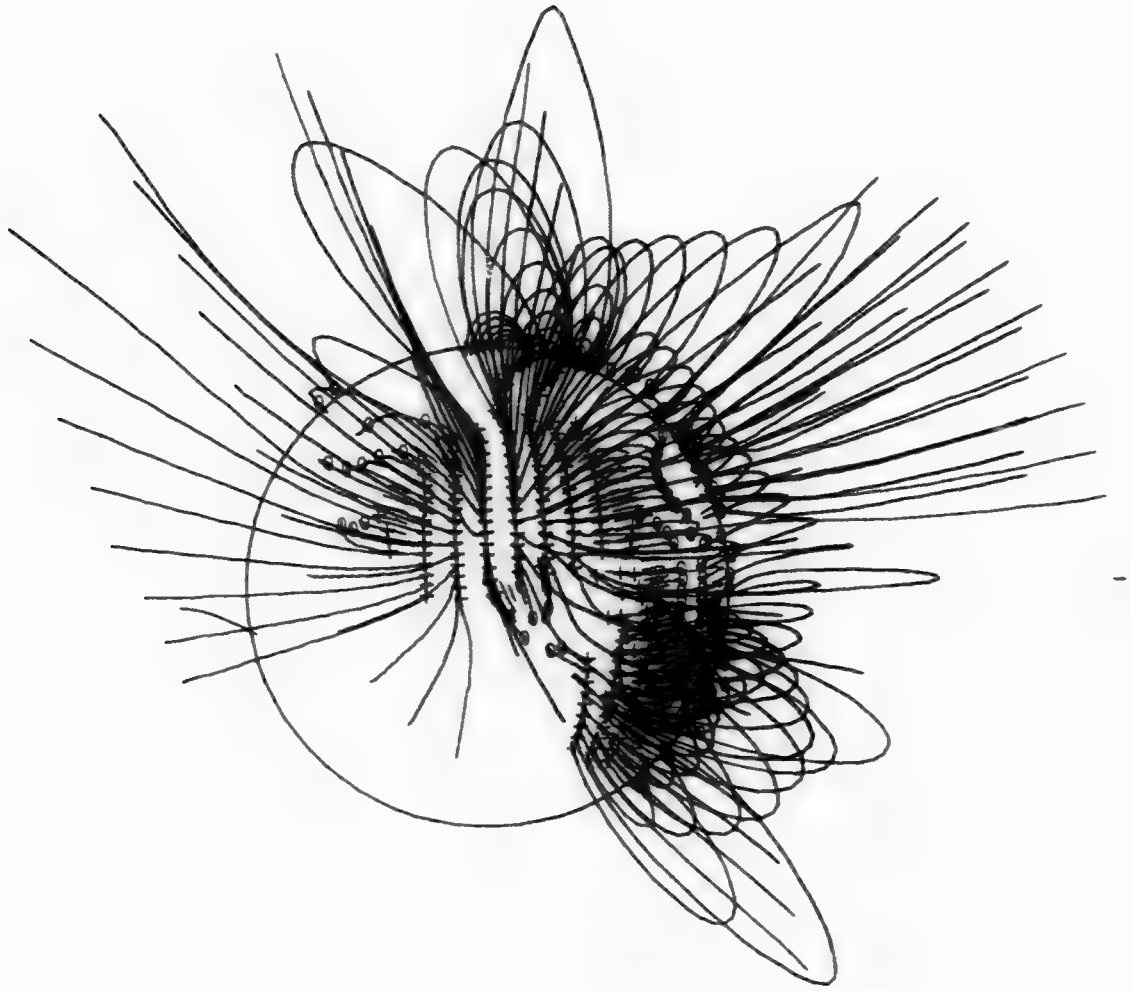
4.6 MAR

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

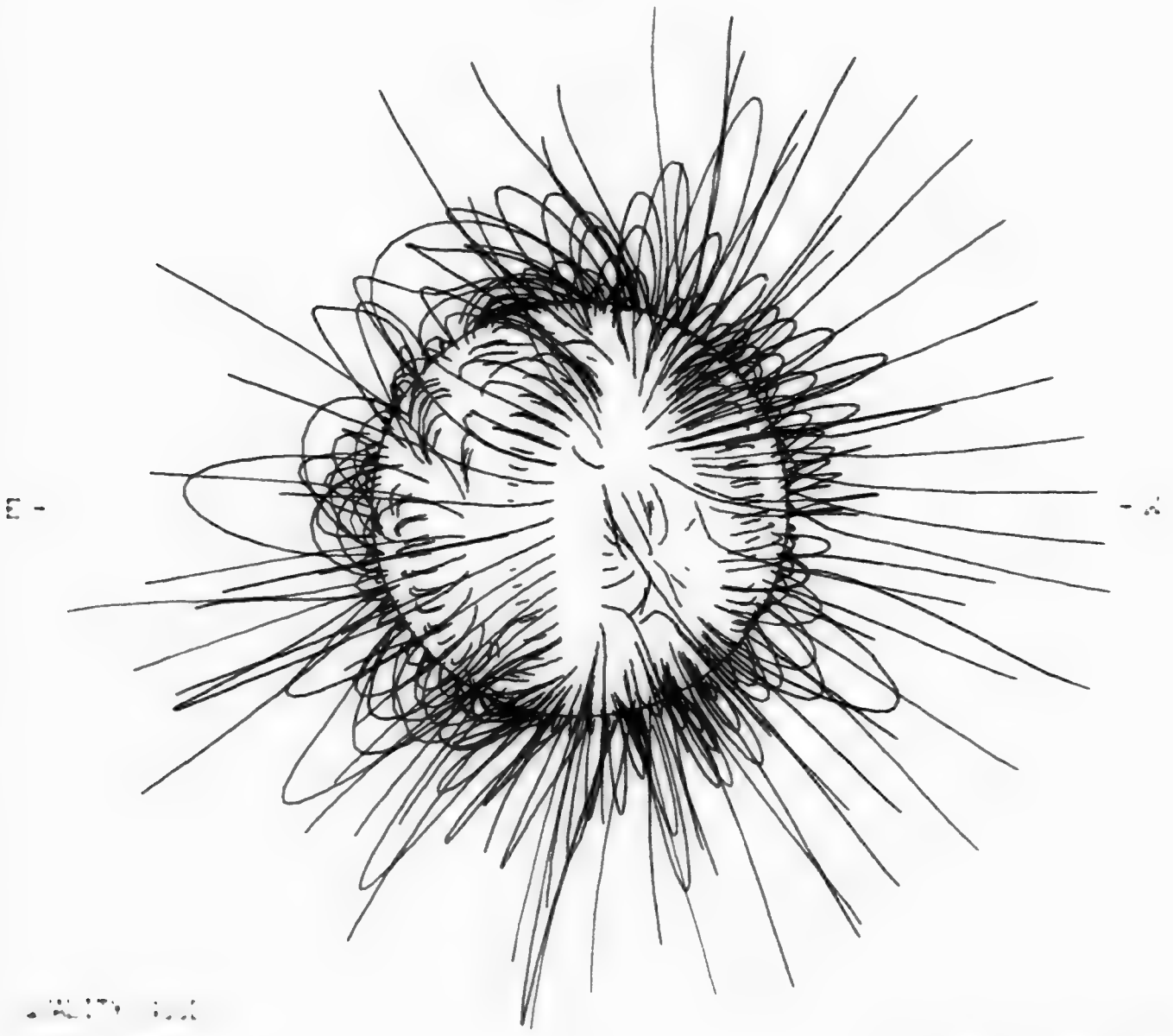


POLES DIRECT

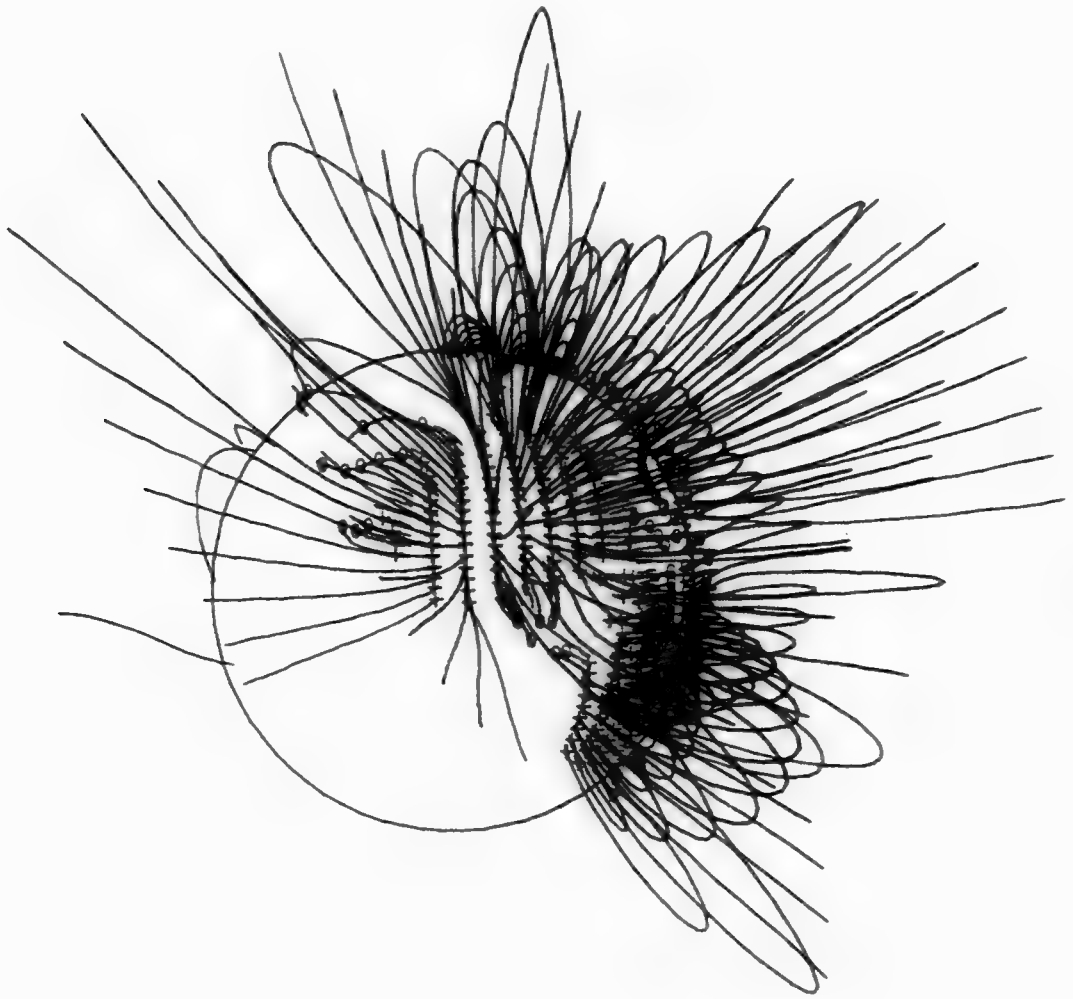
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



QUALITY GOOD

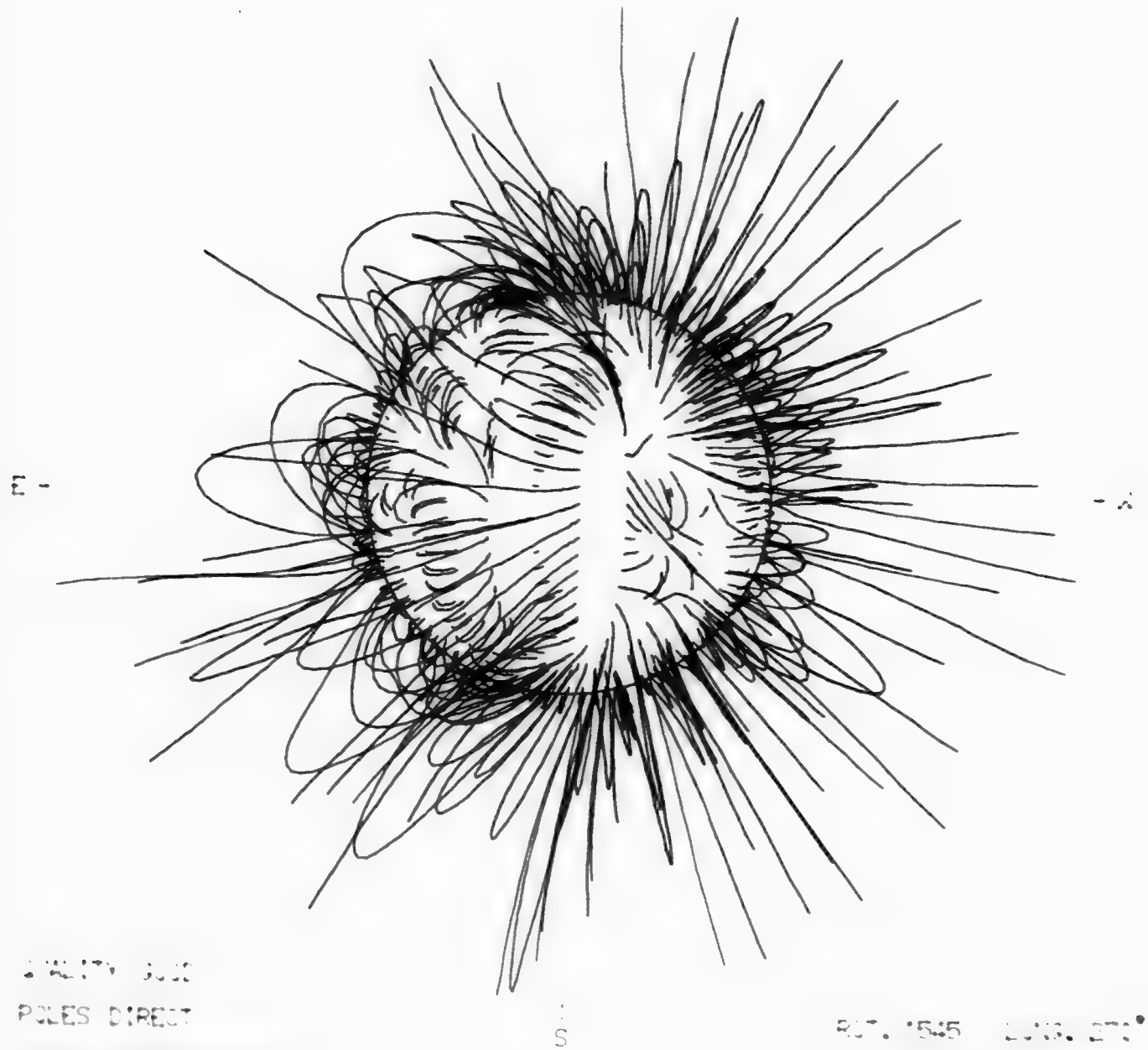
POLES DIRECT

DATA [illegible] 1544.47

E.T. 1545 [illegible]

6.1 MAR 1969

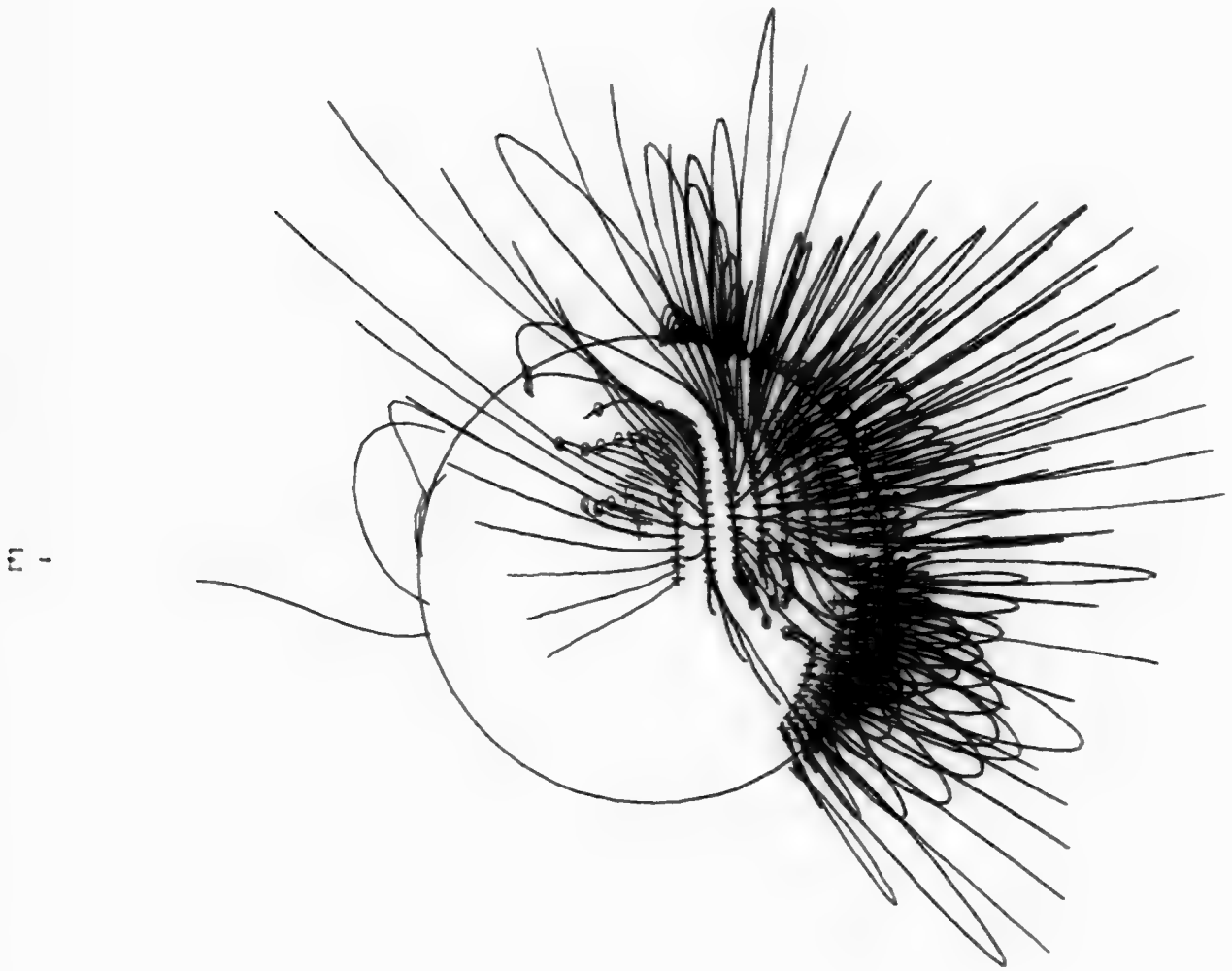
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



POLES DIRECT

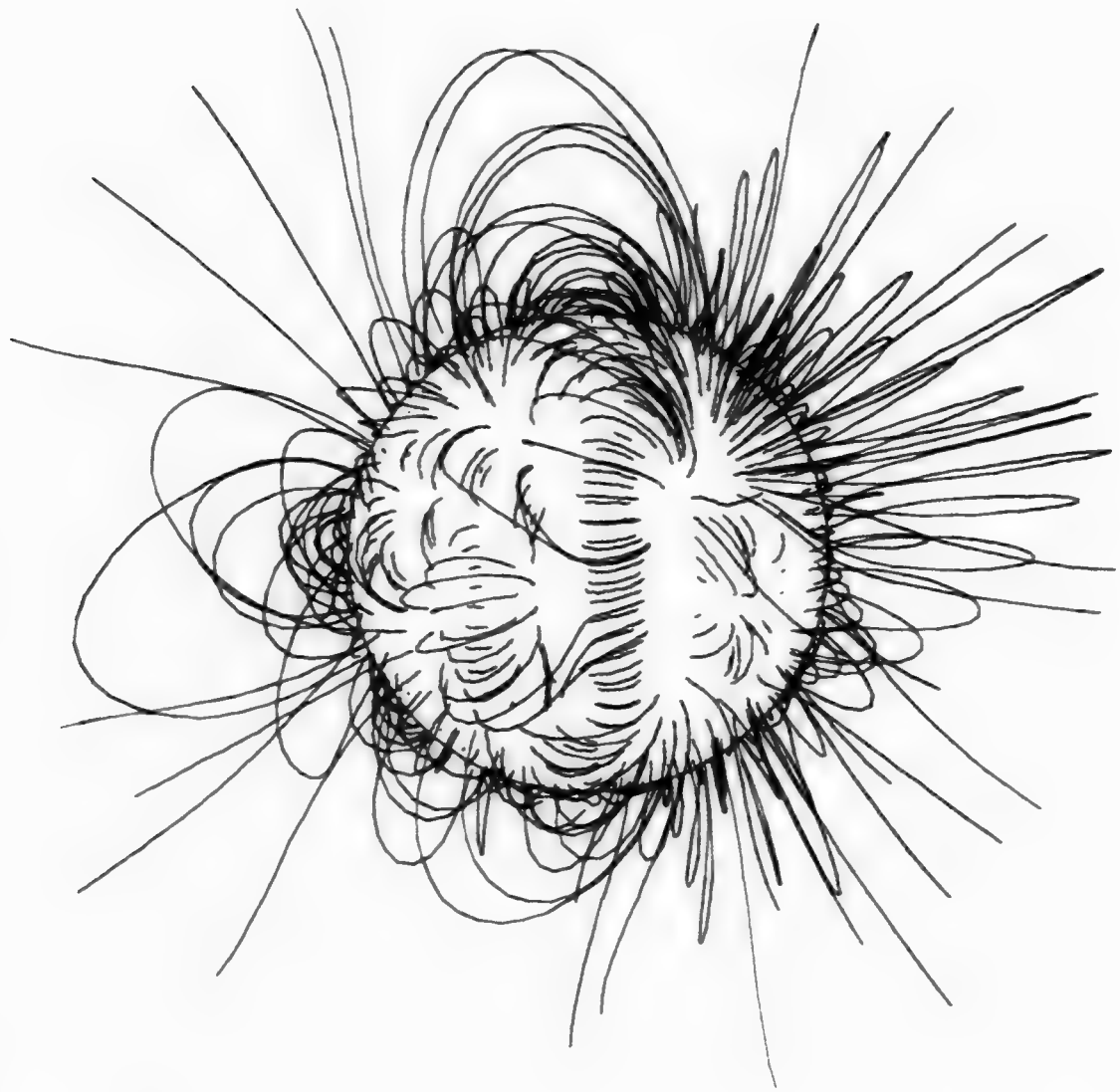
6.8 MAR

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



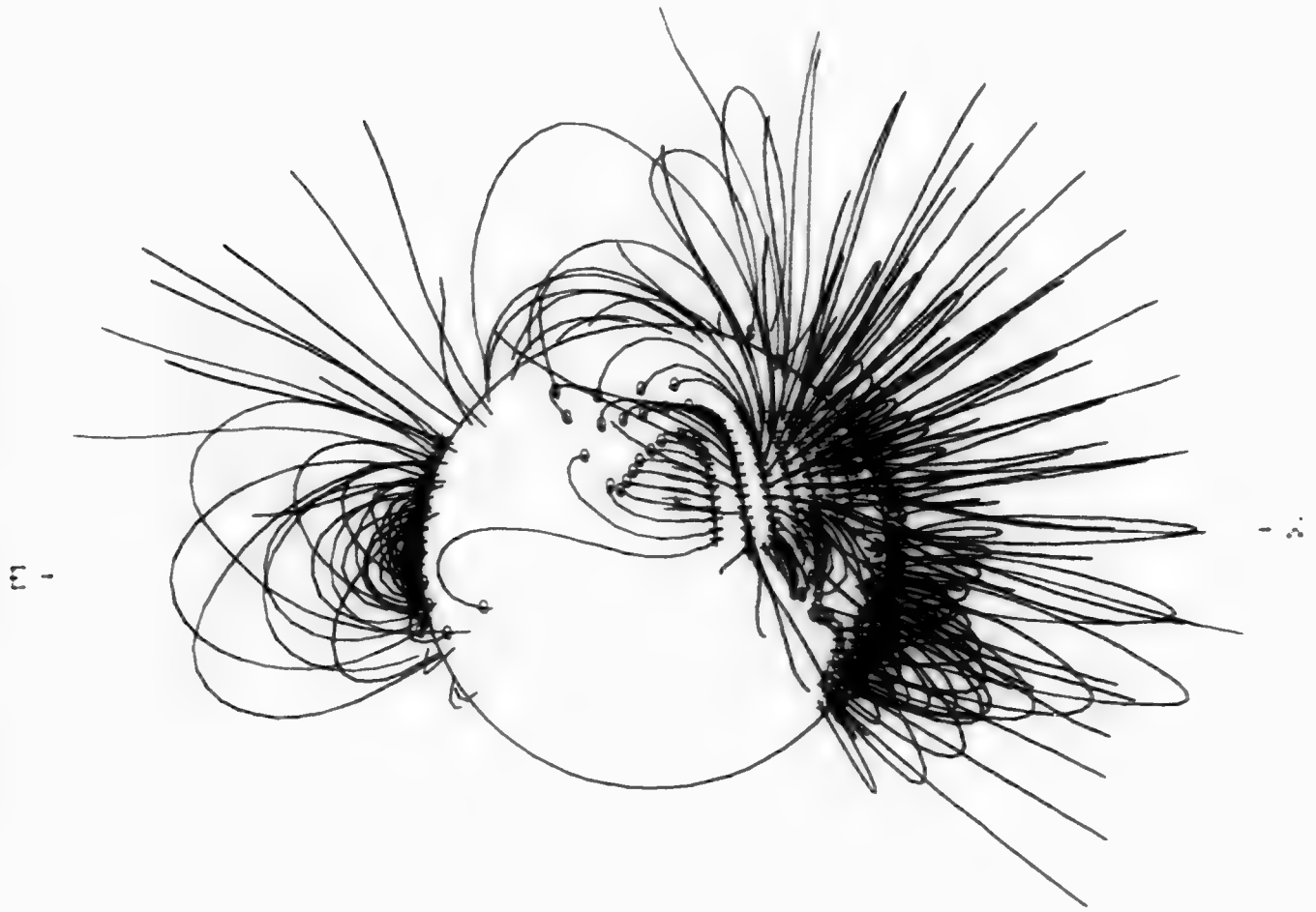
6.8 MAR 1959

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N



E -

- W

S

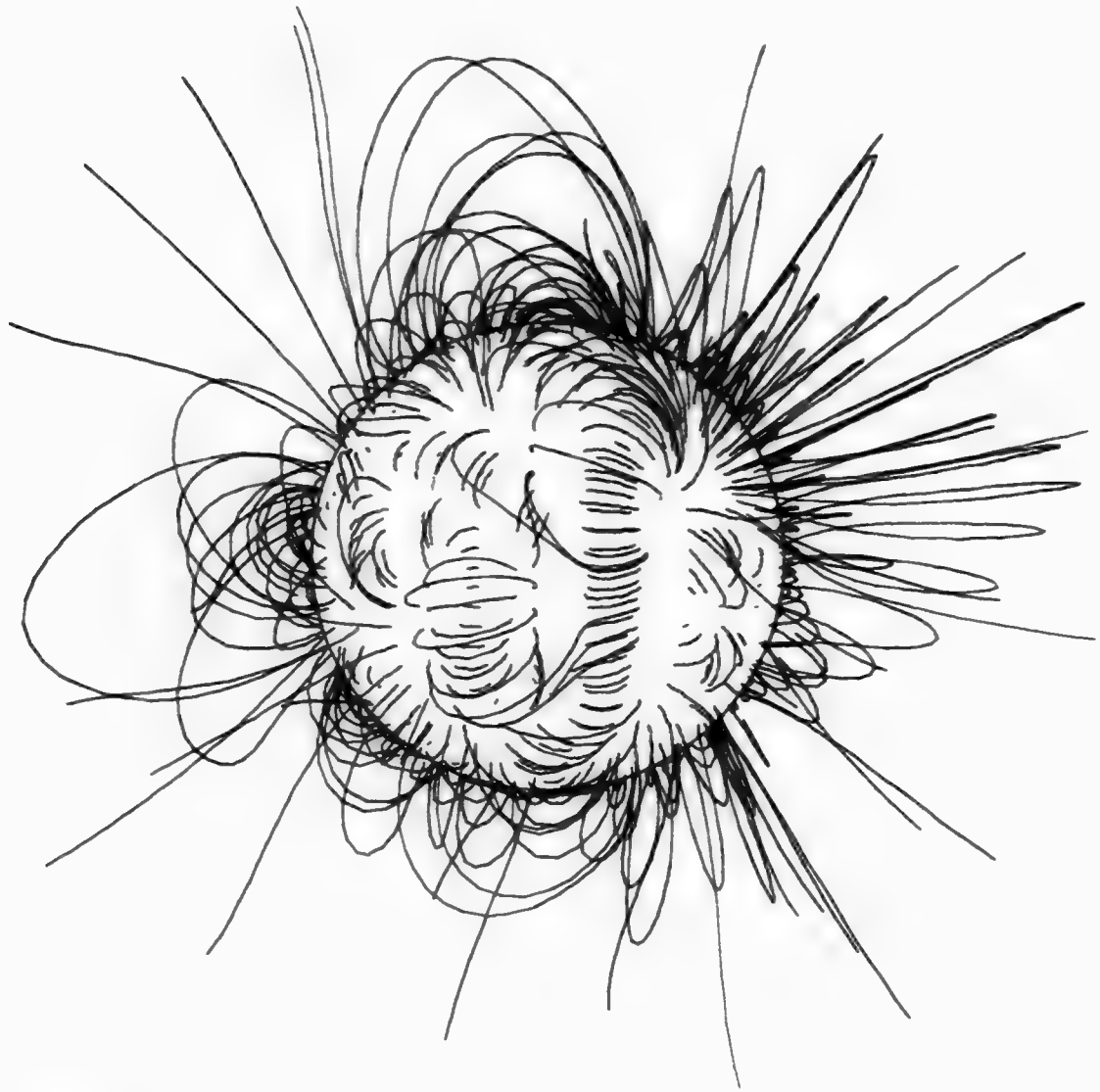
QUALITY GOOD

POLES DIRECT

DATA WINDOW 1545.00

ROT. 1545

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



E -

- W

S

QUALITY GOOD

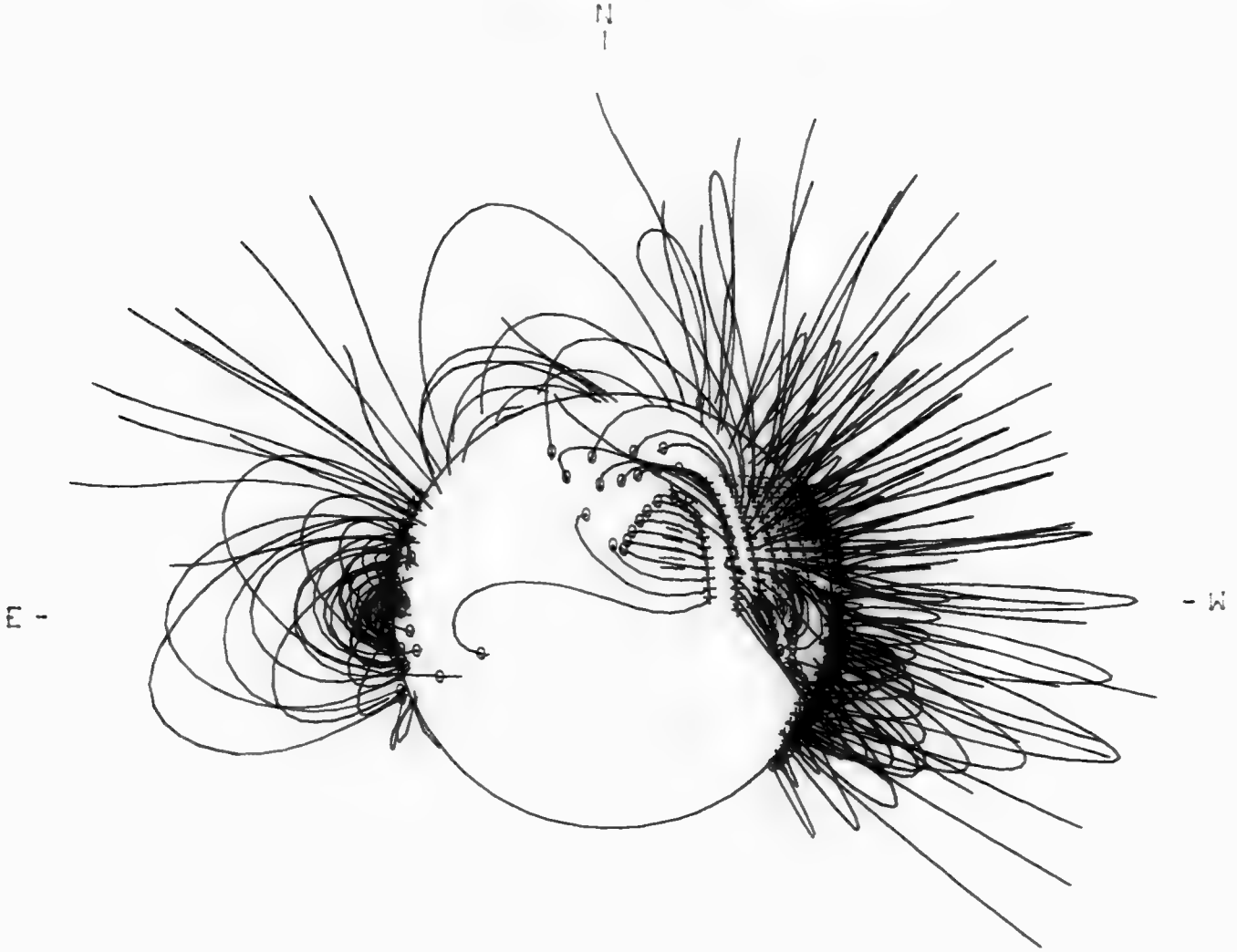
POLES DIRECT

DATA WINDOW 1545.00

ROT. 1545 LONG. 251°

8.4 MAR 1969

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



QUALITY GOOD

POLES DIRECT

DATA AVAILABLE 1545.00

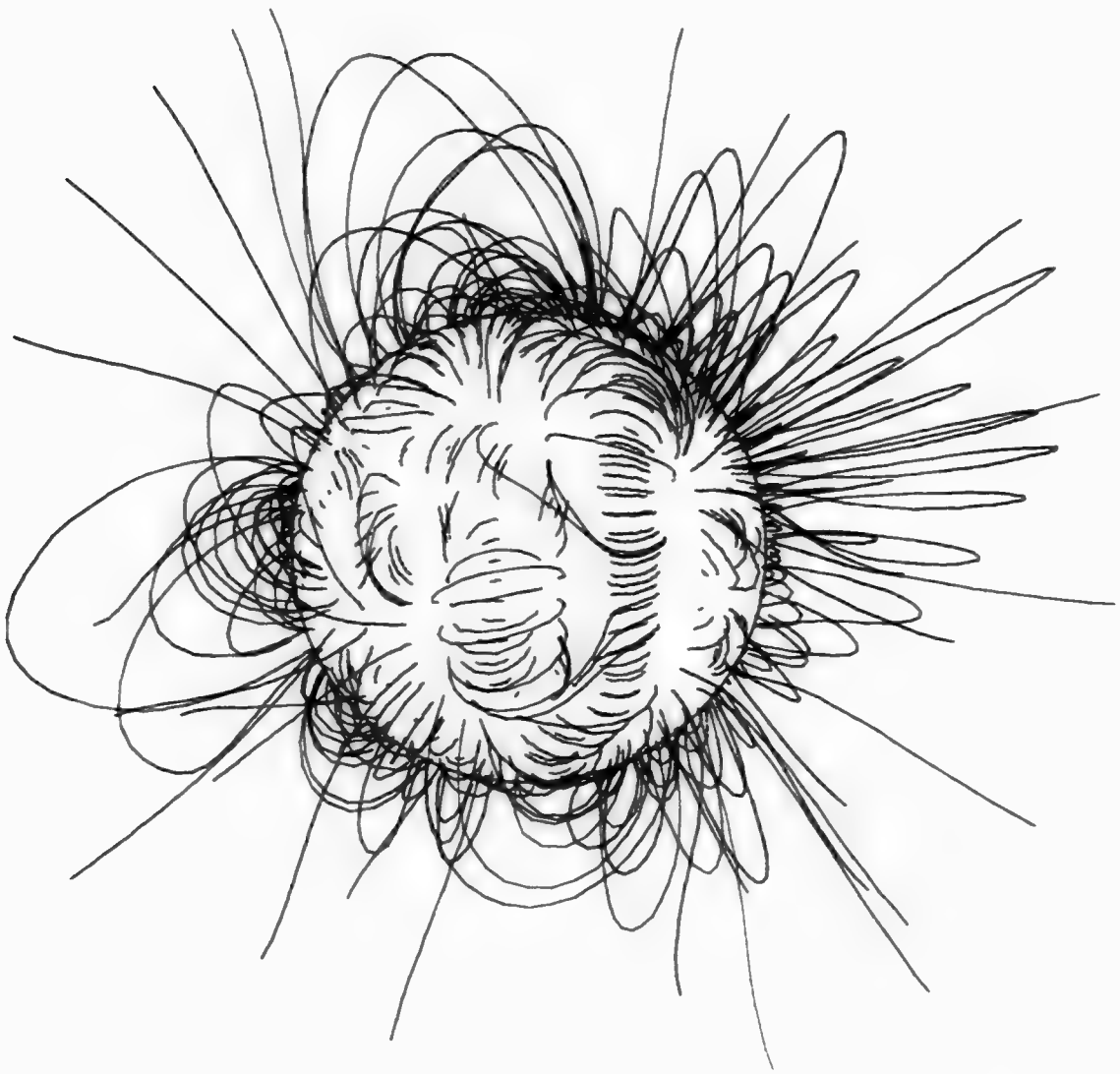
ROT. 1545 LONG. 251.°

8.4 MAR 1969

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N

E -

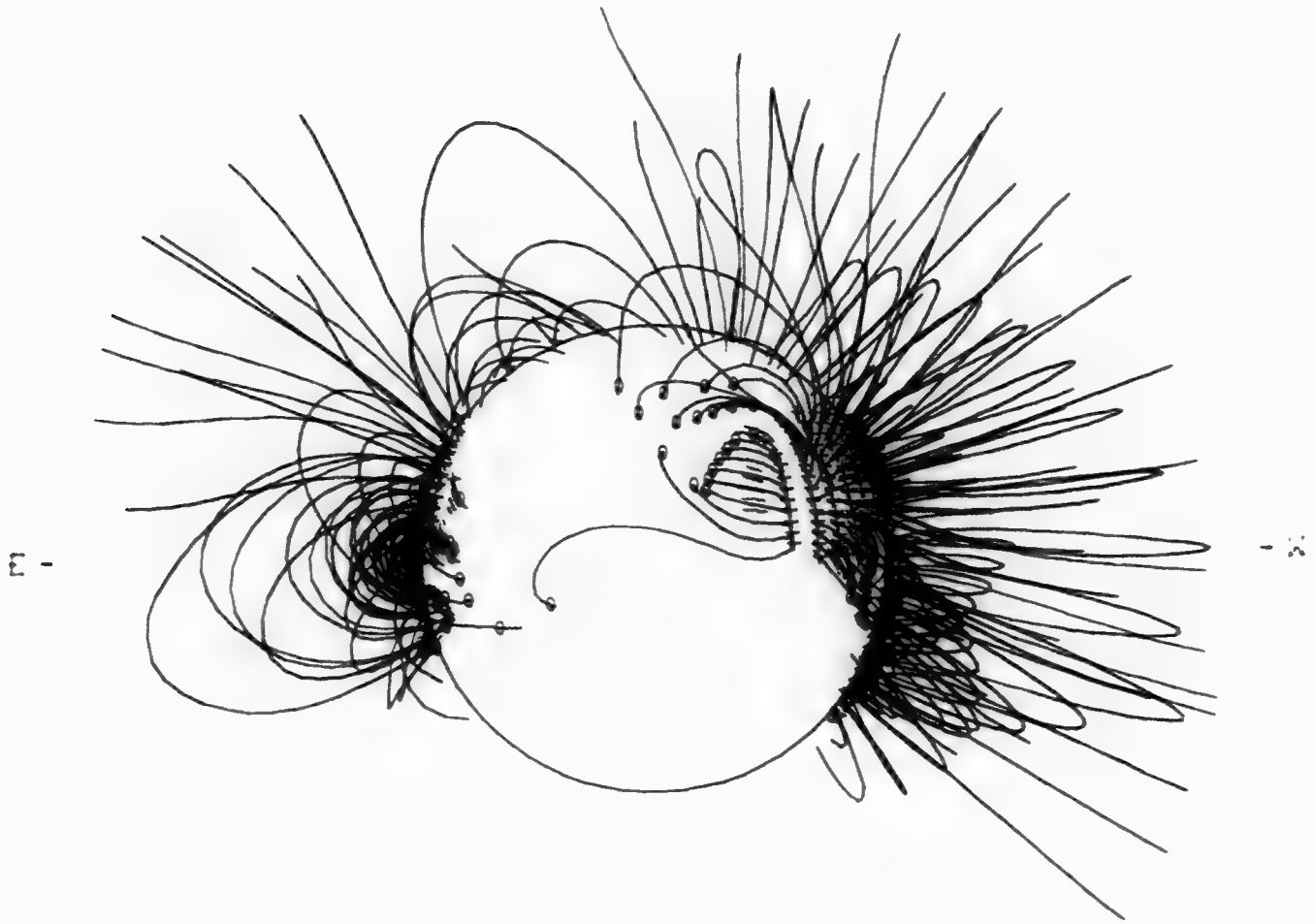


- W

S

POLES DIRECT

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



QUALITY GOOD

POLES DIRECT

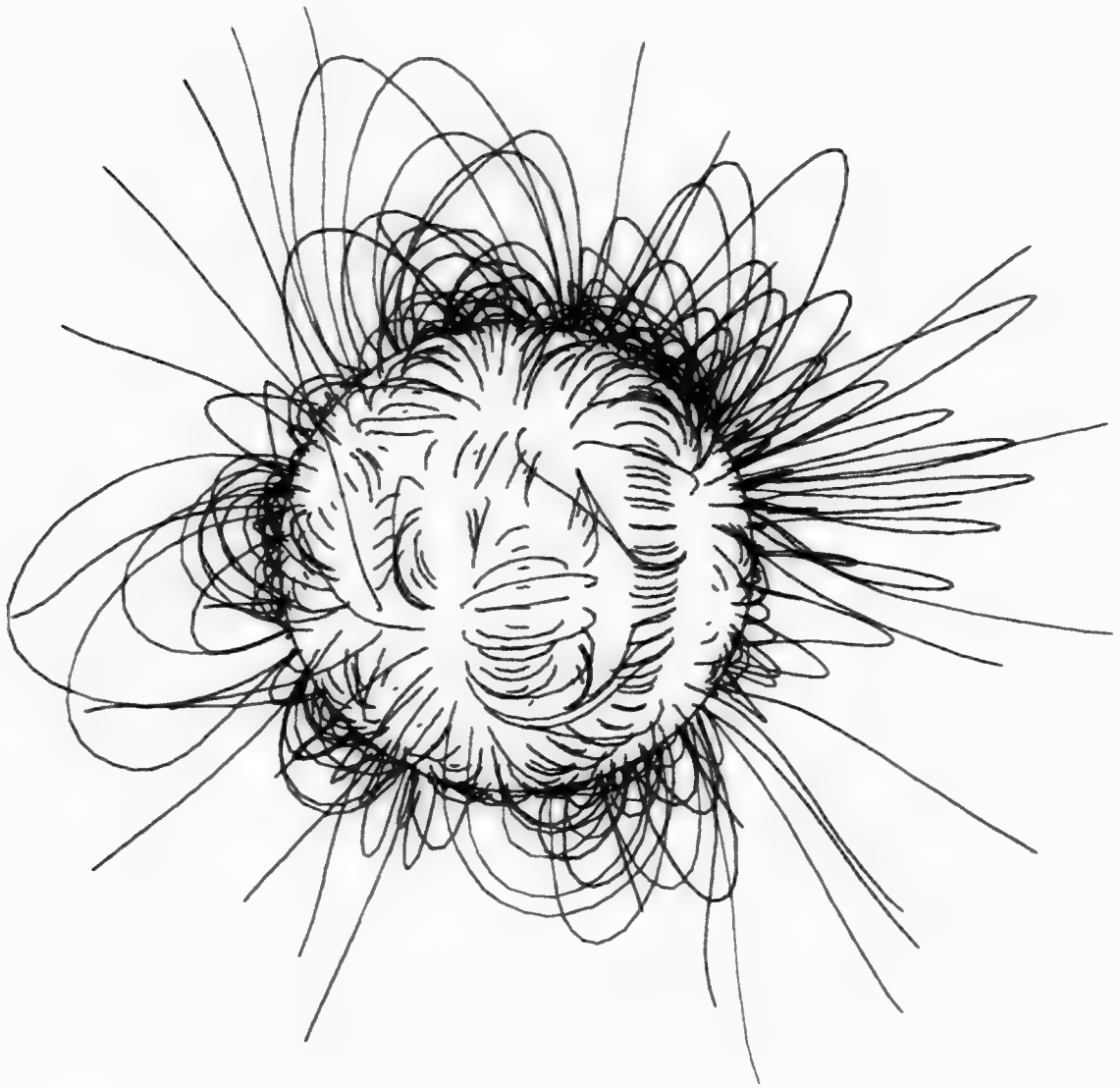
DATA MINUS 1545.00

ROT. 1545 LONG. 241°

9.1 MAR 1954

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N



E -

- W

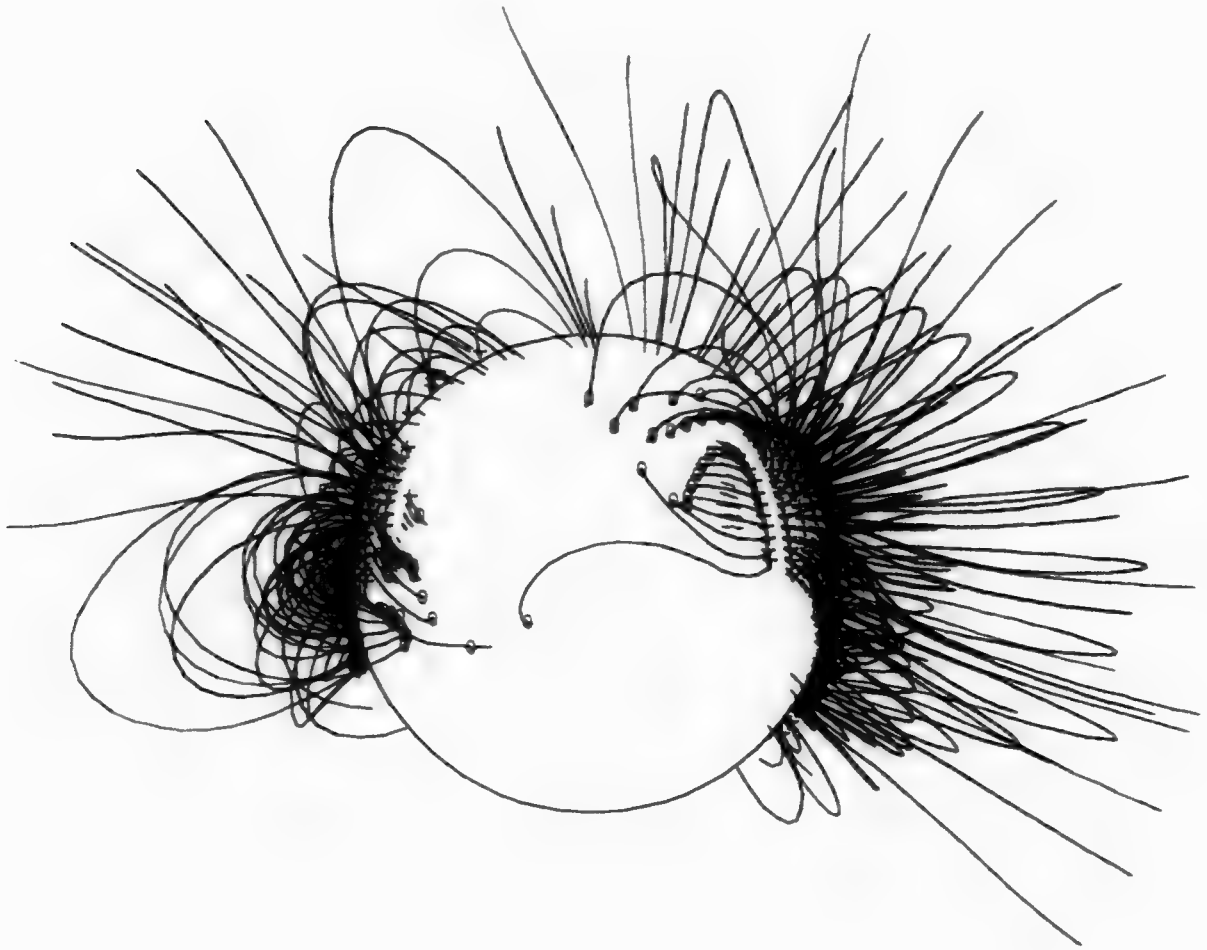
S

POLES DIRECT

ROT. 1545

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N



E -

- A

S

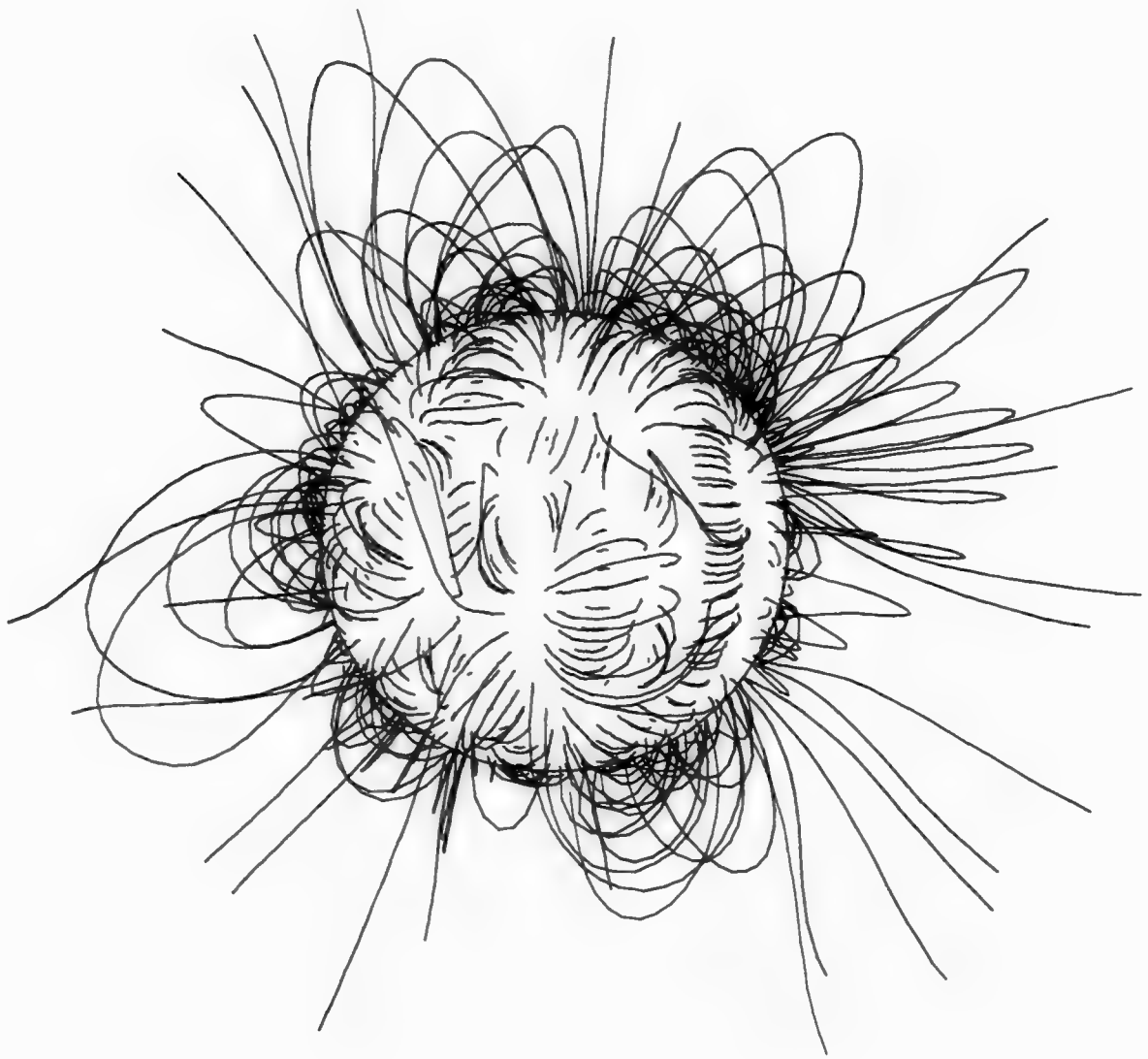
POLES DIRECT

DATA WINDOW 1545.00

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N

E -



- W

S

QUALITY GOOD

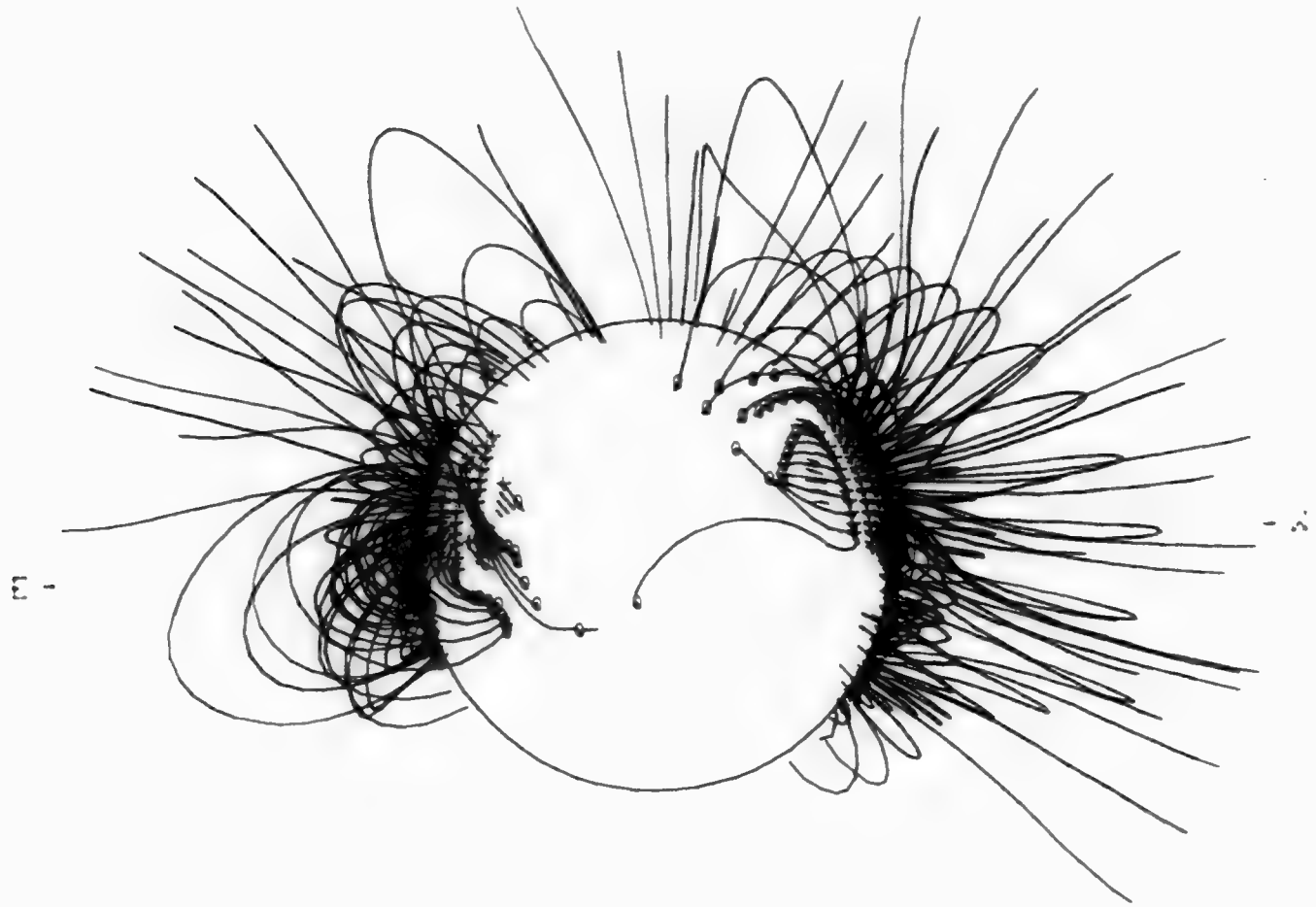
POLES DIRECT

DATA WINDOW 1545.00

ROT. 1545 LONG. 220°

10.7 MAR 1969

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N

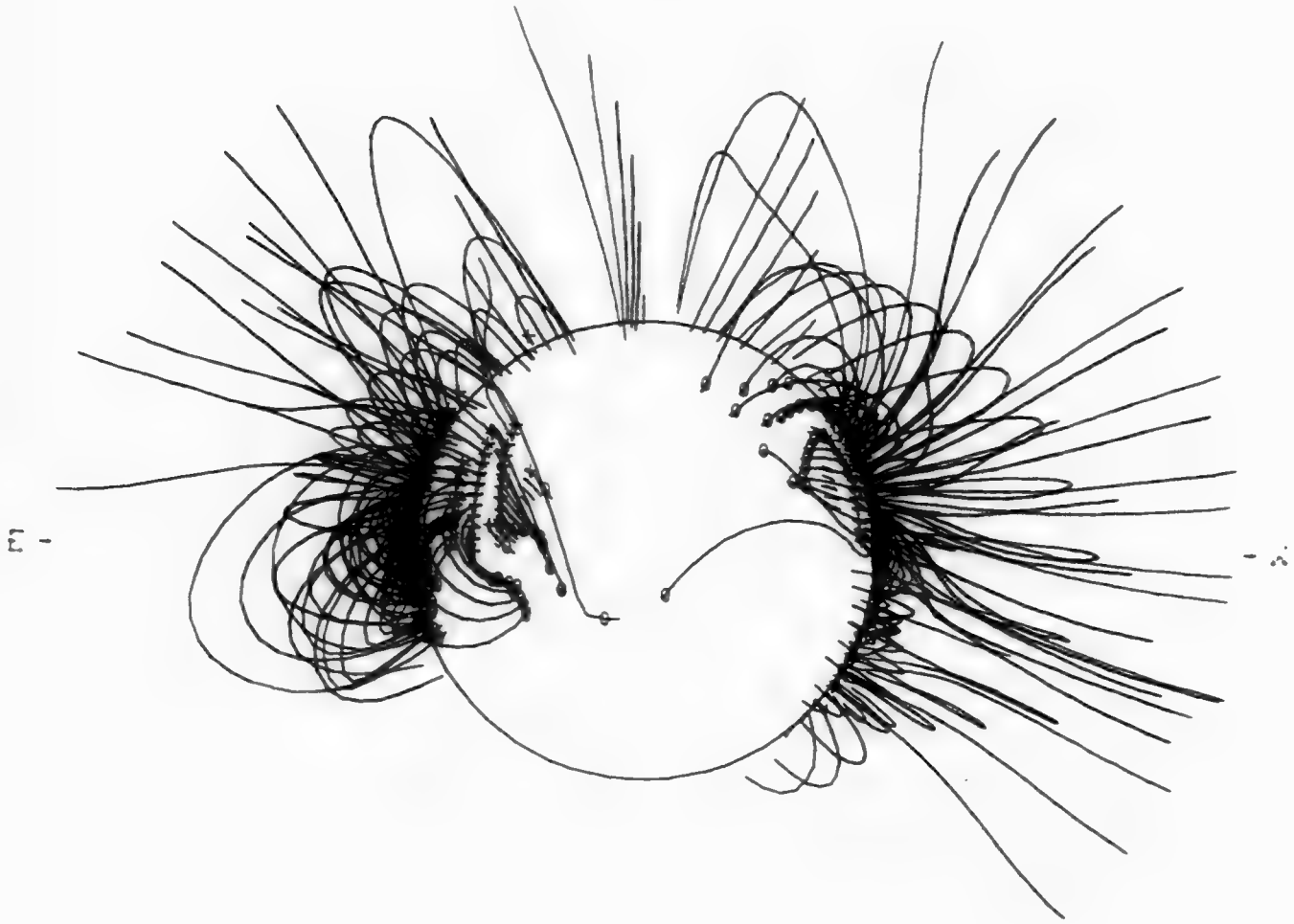
E -

- W

S

POLES DIRECT

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



QUALITY GOOD

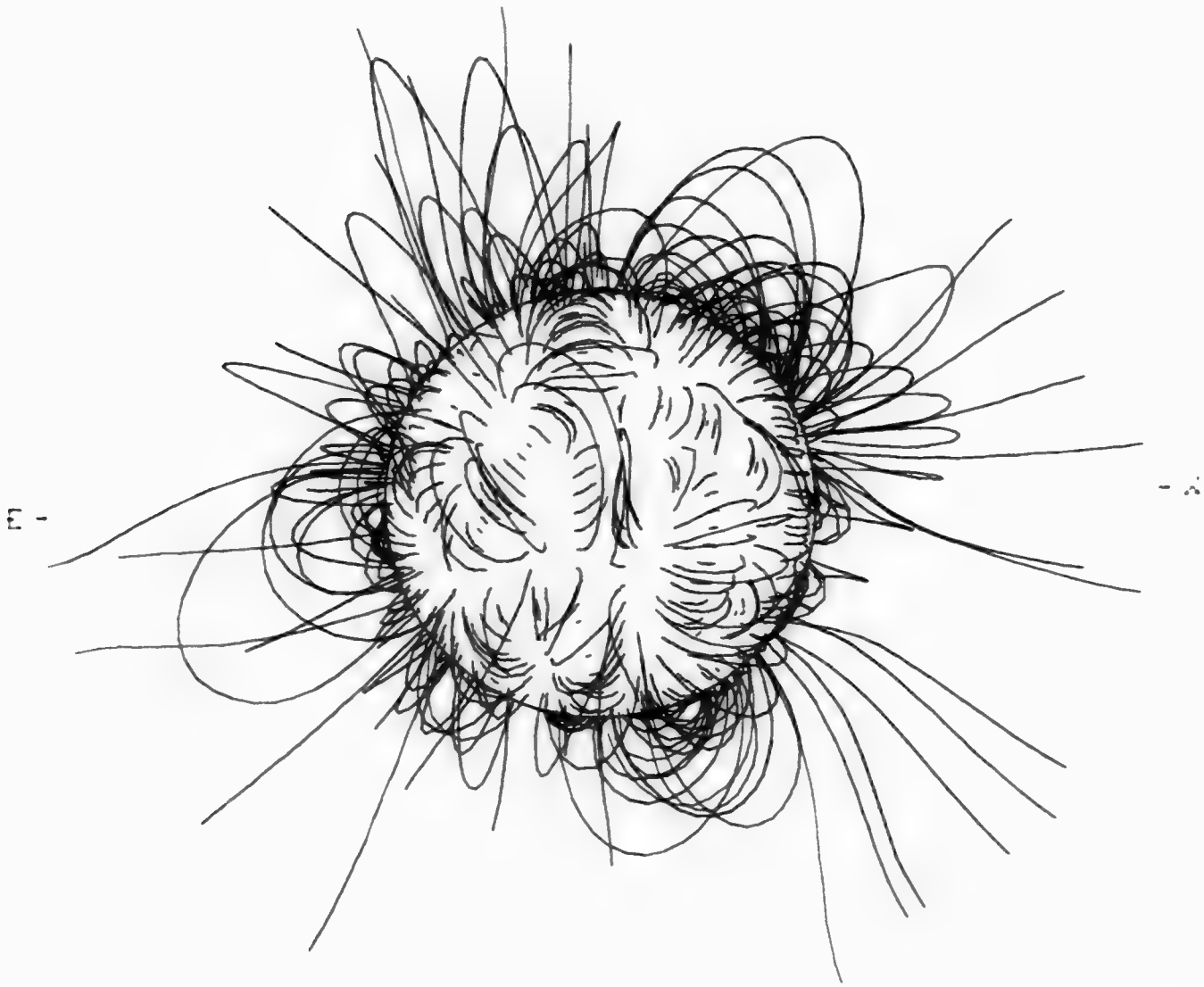
RULES DIRECT

DATA WINDOW 1545.00

ROT. 1545 [illegible]

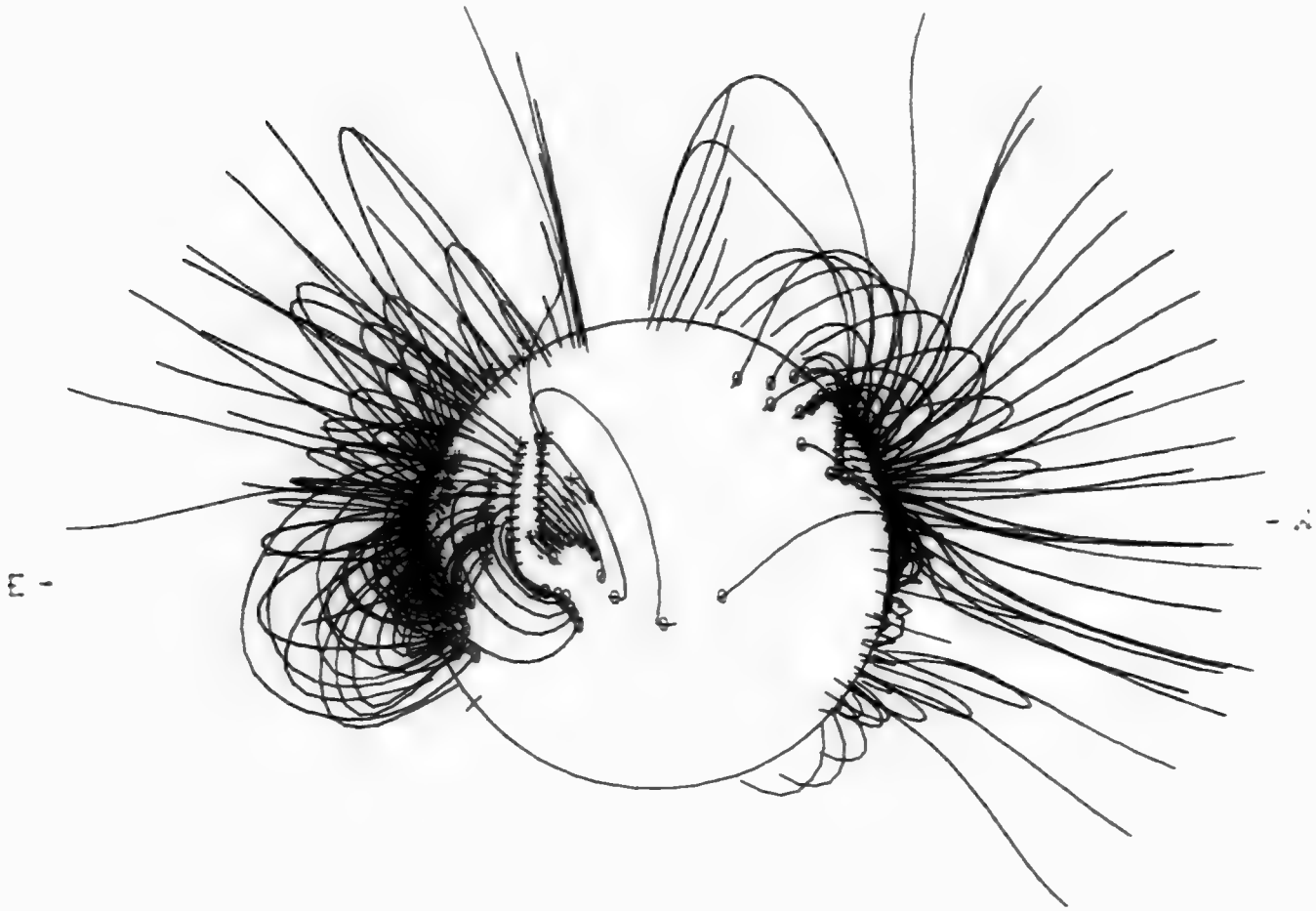
[illegible] MAR [illegible]

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



POLES DIRECT

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

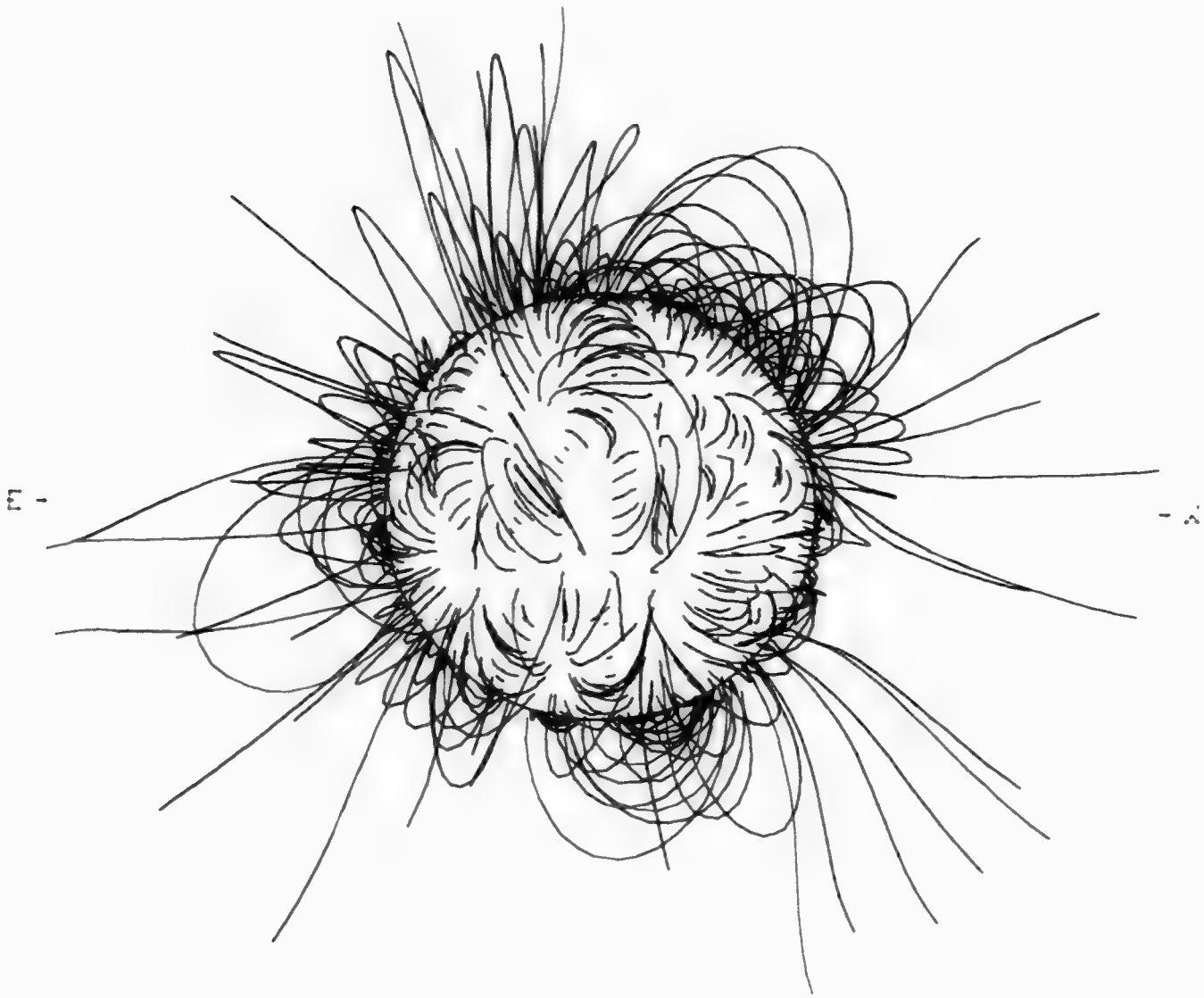


POLES DIRECT

DATA WINDOW 1545.00

S

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



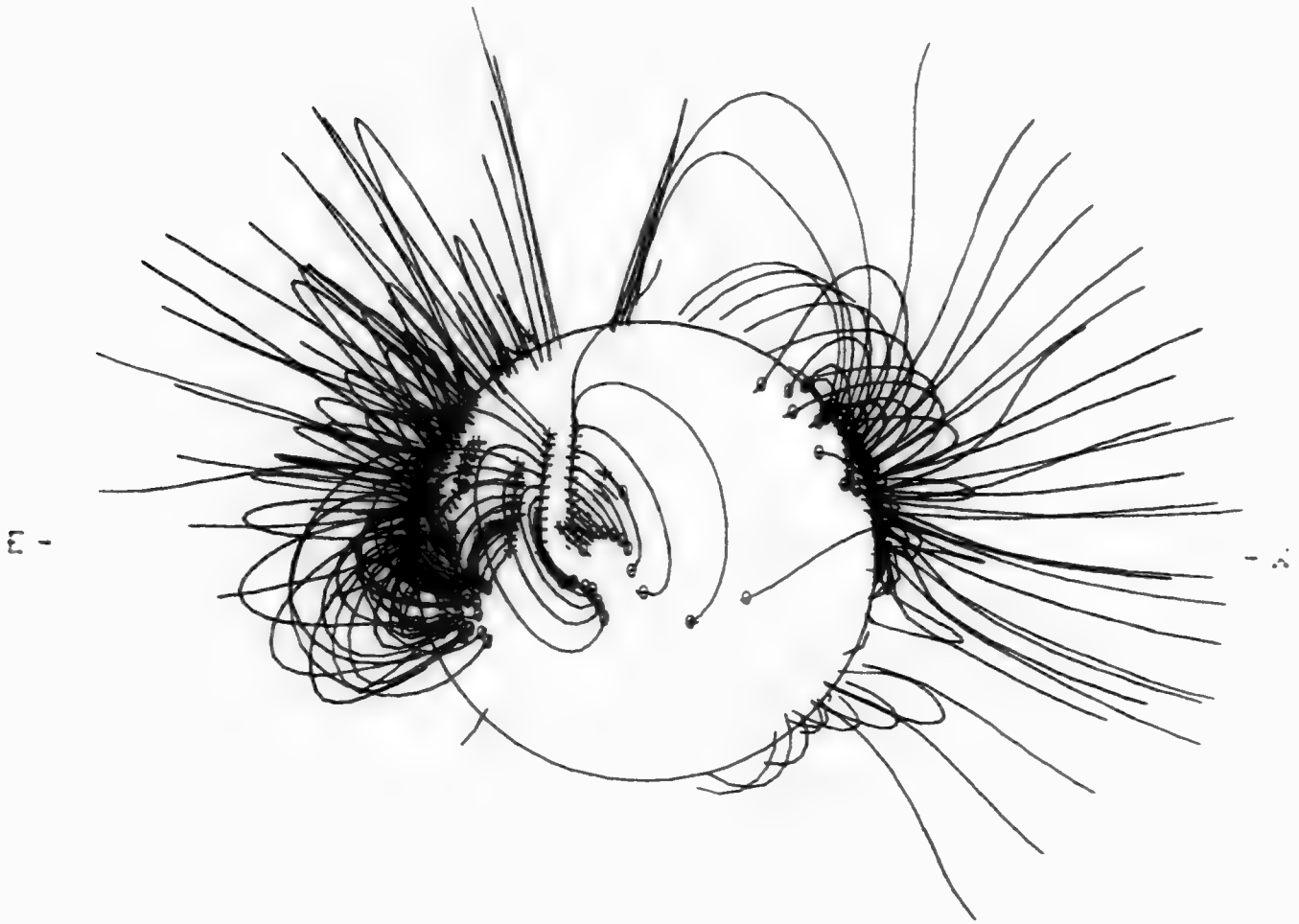
POLES DIRECT

DATA WINDOW 1545.00

ROT. 1545

12.9 MAR

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



[illegible]

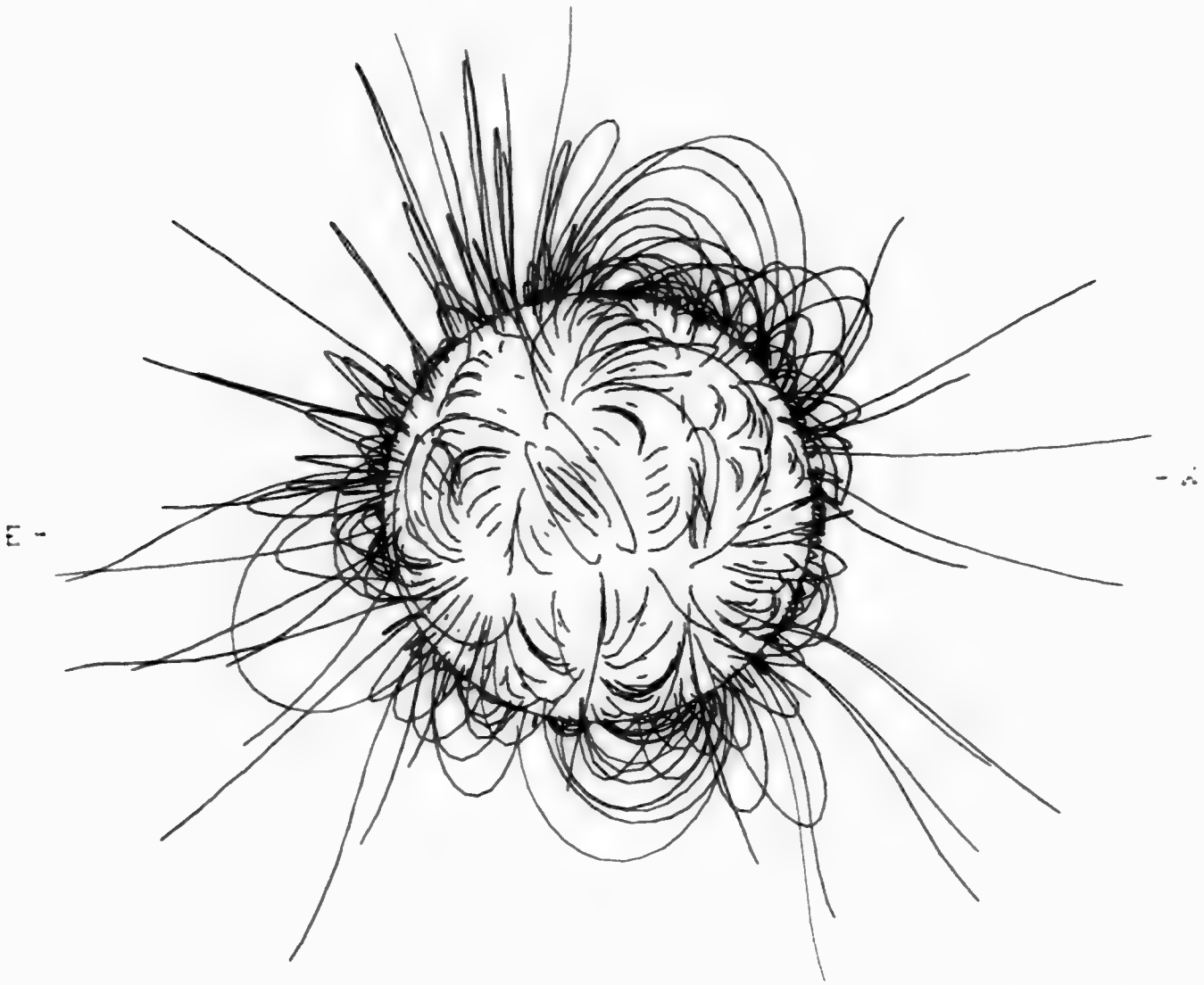
POLES DIRECT

[illegible]

S

[illegible]

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



QUALITY 3.0

POLES DIRECT

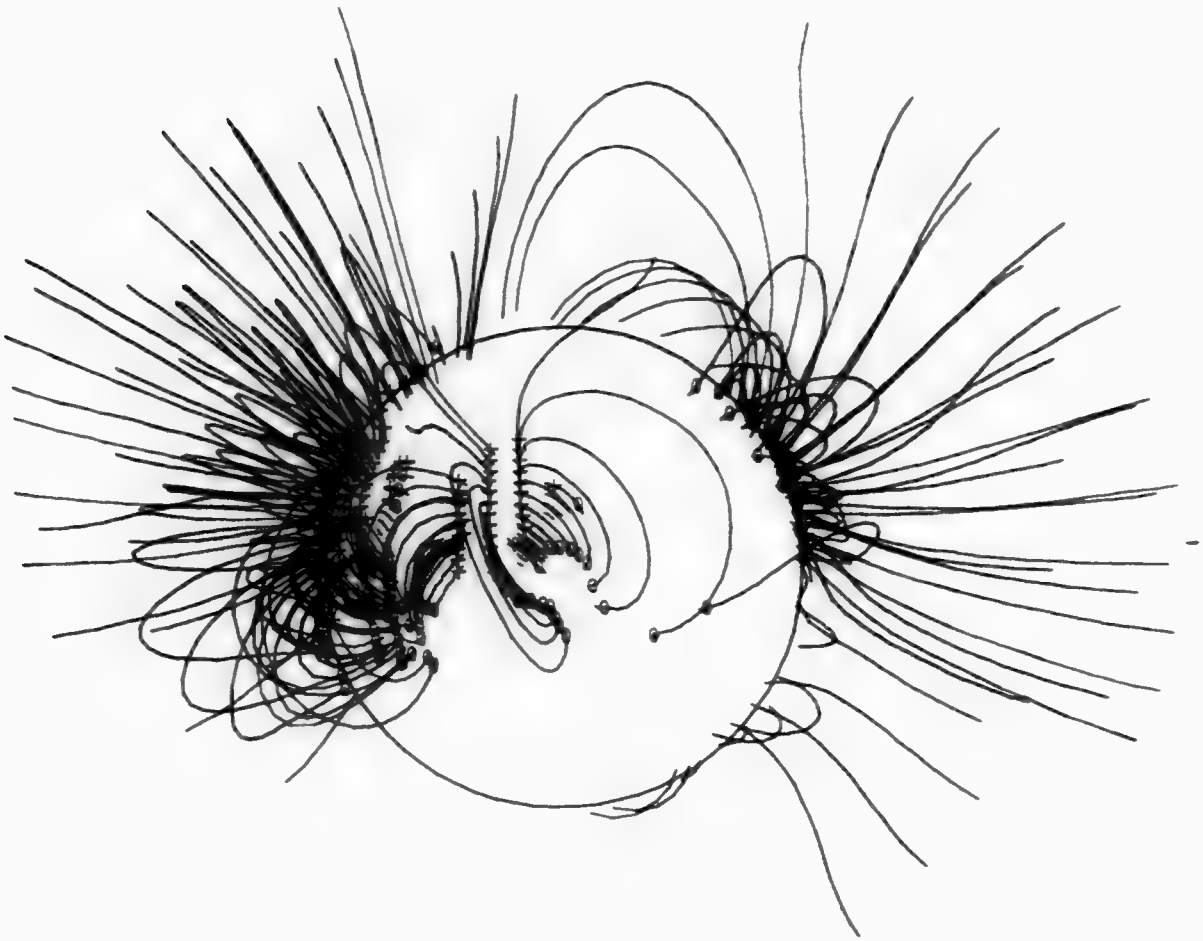
DATA AVAILABLE 1545.00

R.T. 1545

13.7 MAR 1969

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N

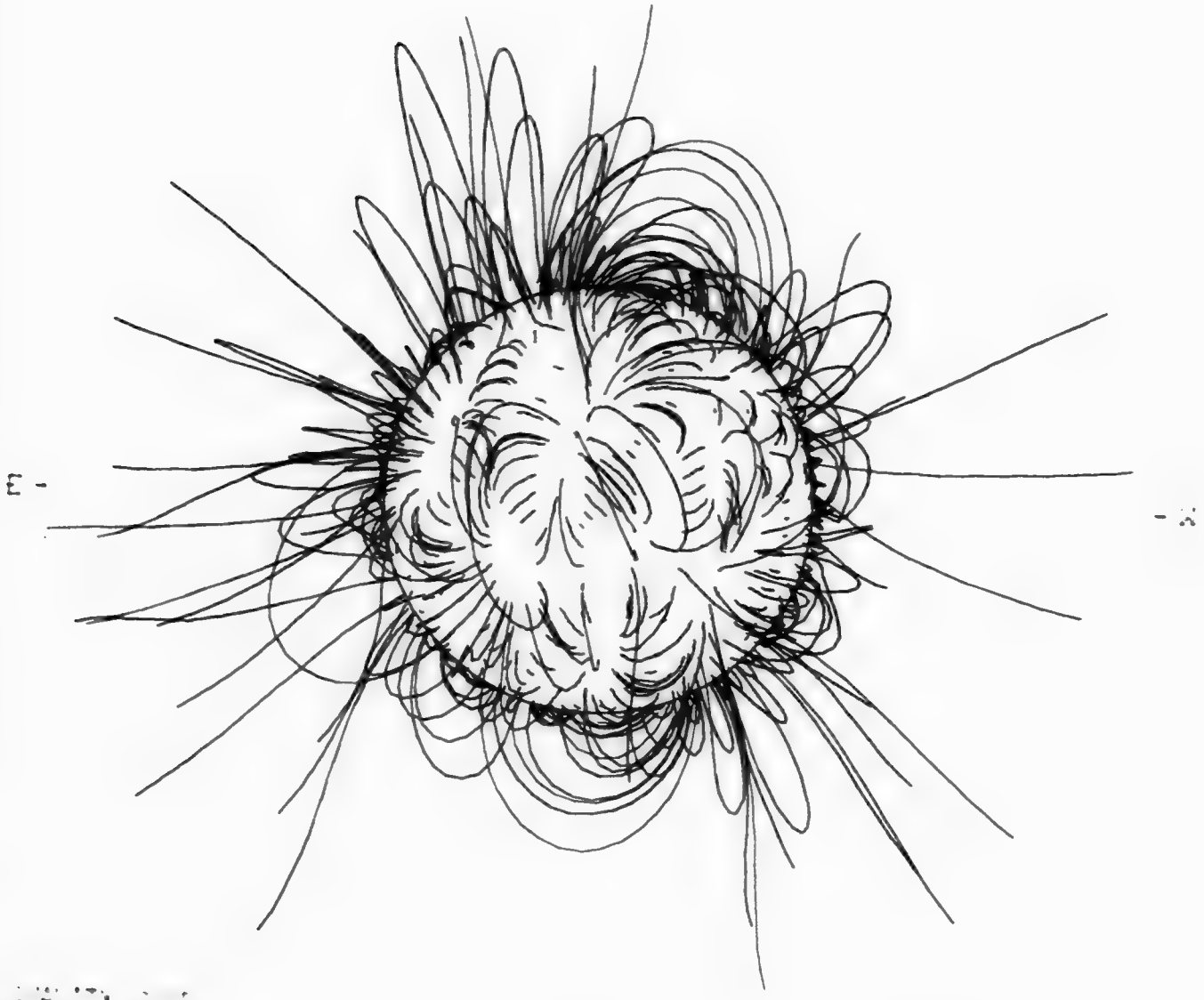


E -

- W

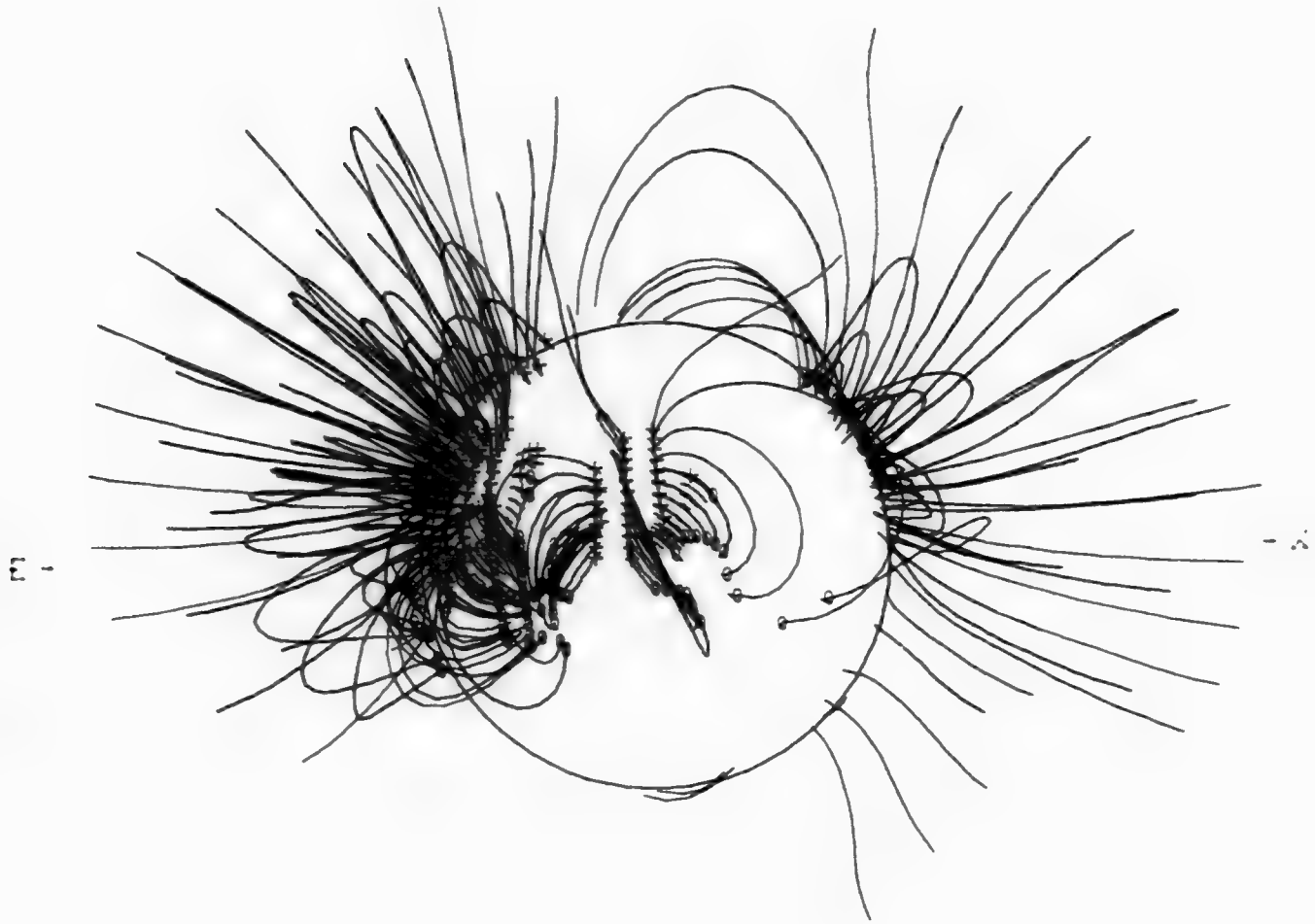
S

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N



E

S

QUALITY GOOD

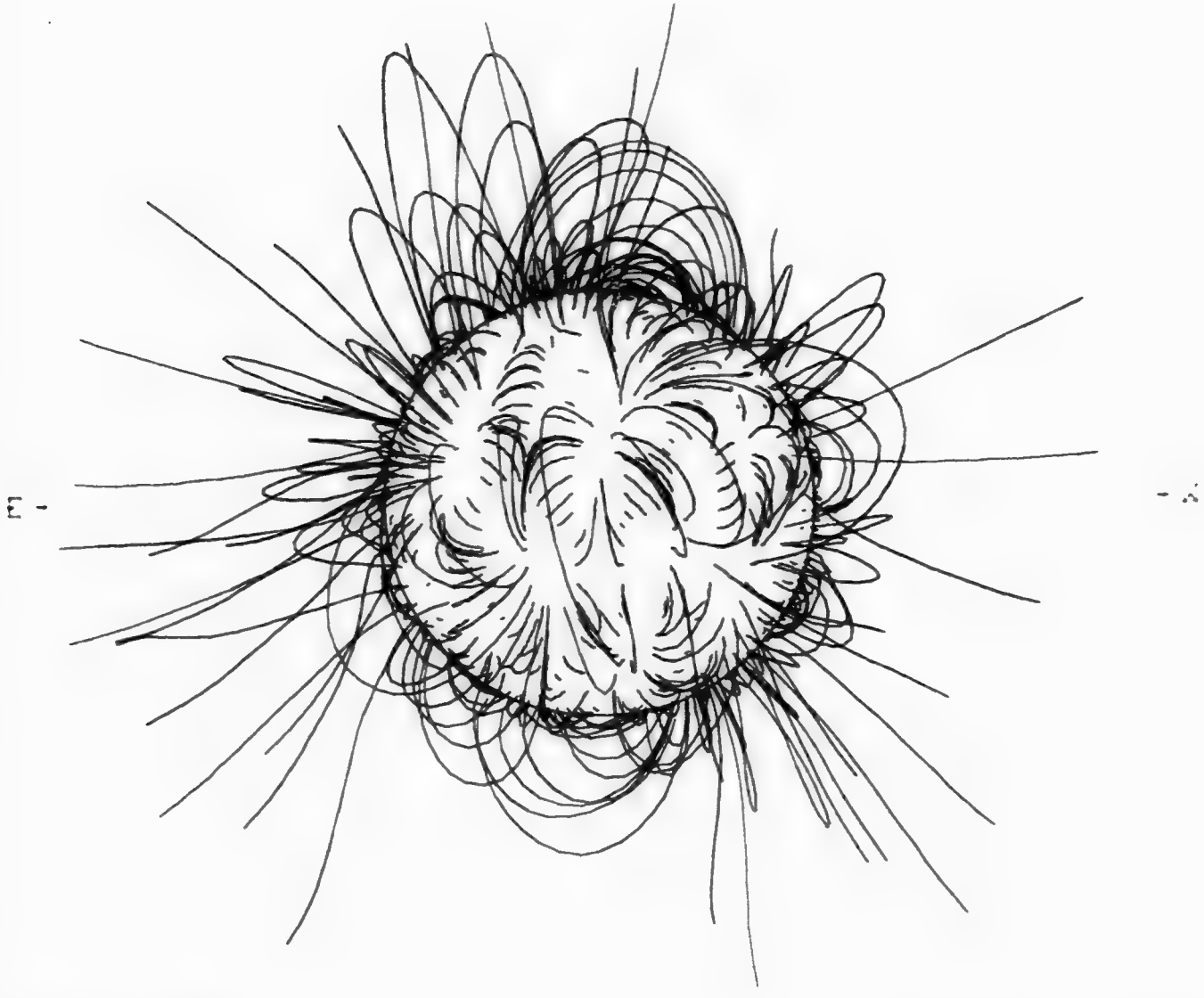
POLES DIRECT

DATA AT 1545.00

R.T. 1545 ...

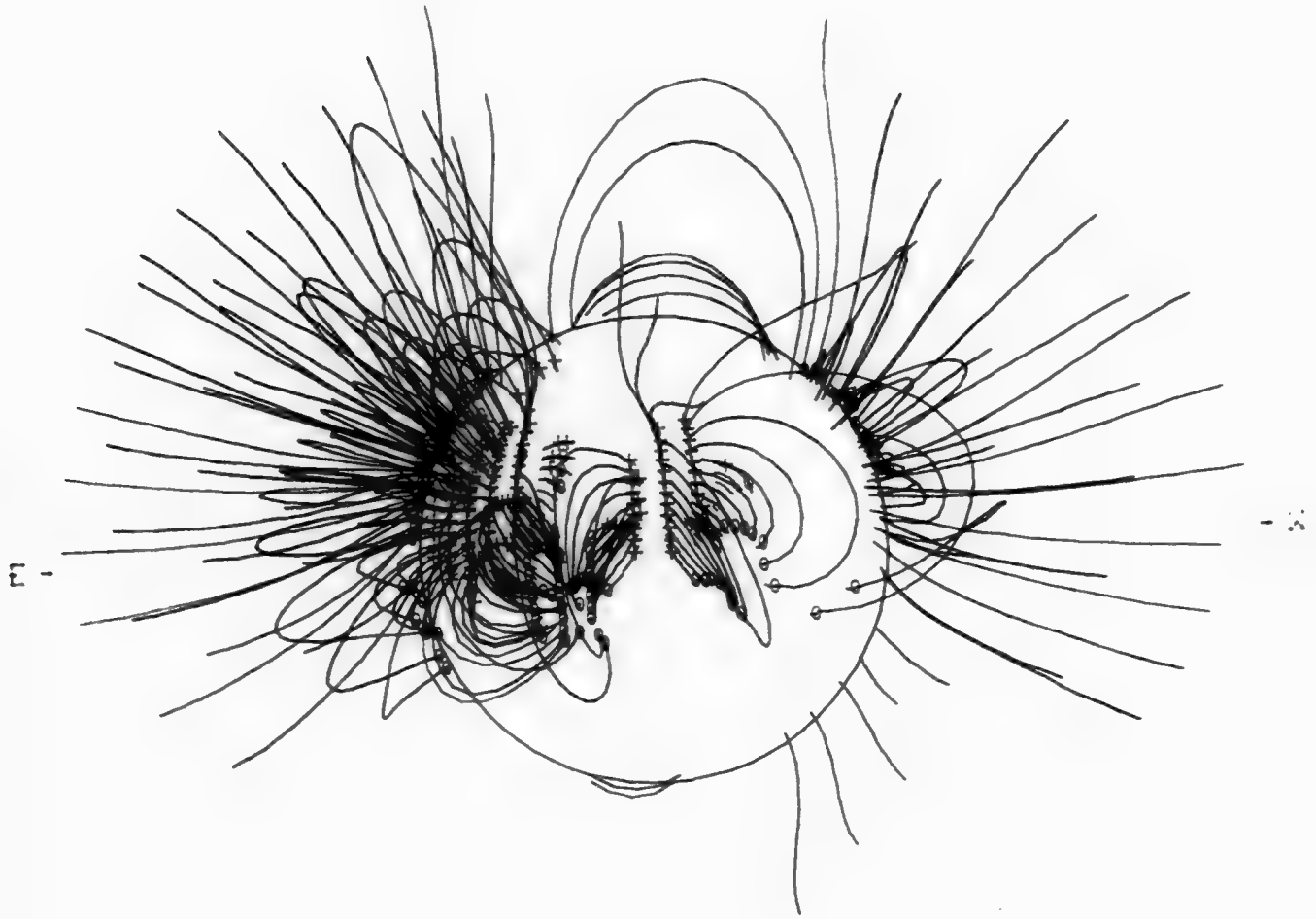
14.5 MAR ...

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



POLES DIRECT

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



QUALITY GOOD

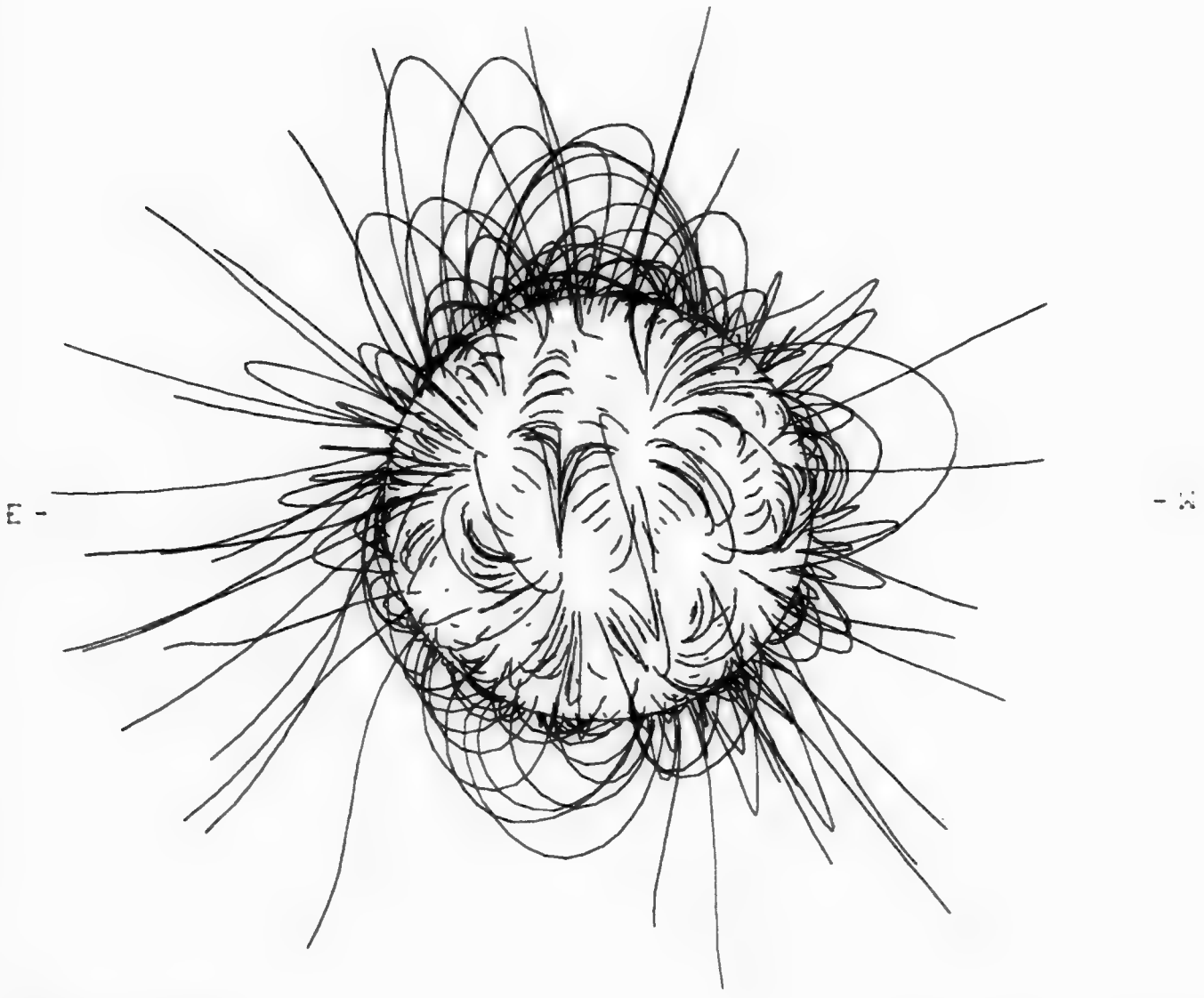
RULES DIRECT

DATA WINDOW 15:45.00

E.T. 15:45 [illegible]

15.2 MAR [illegible]

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



QUALITY GOOD

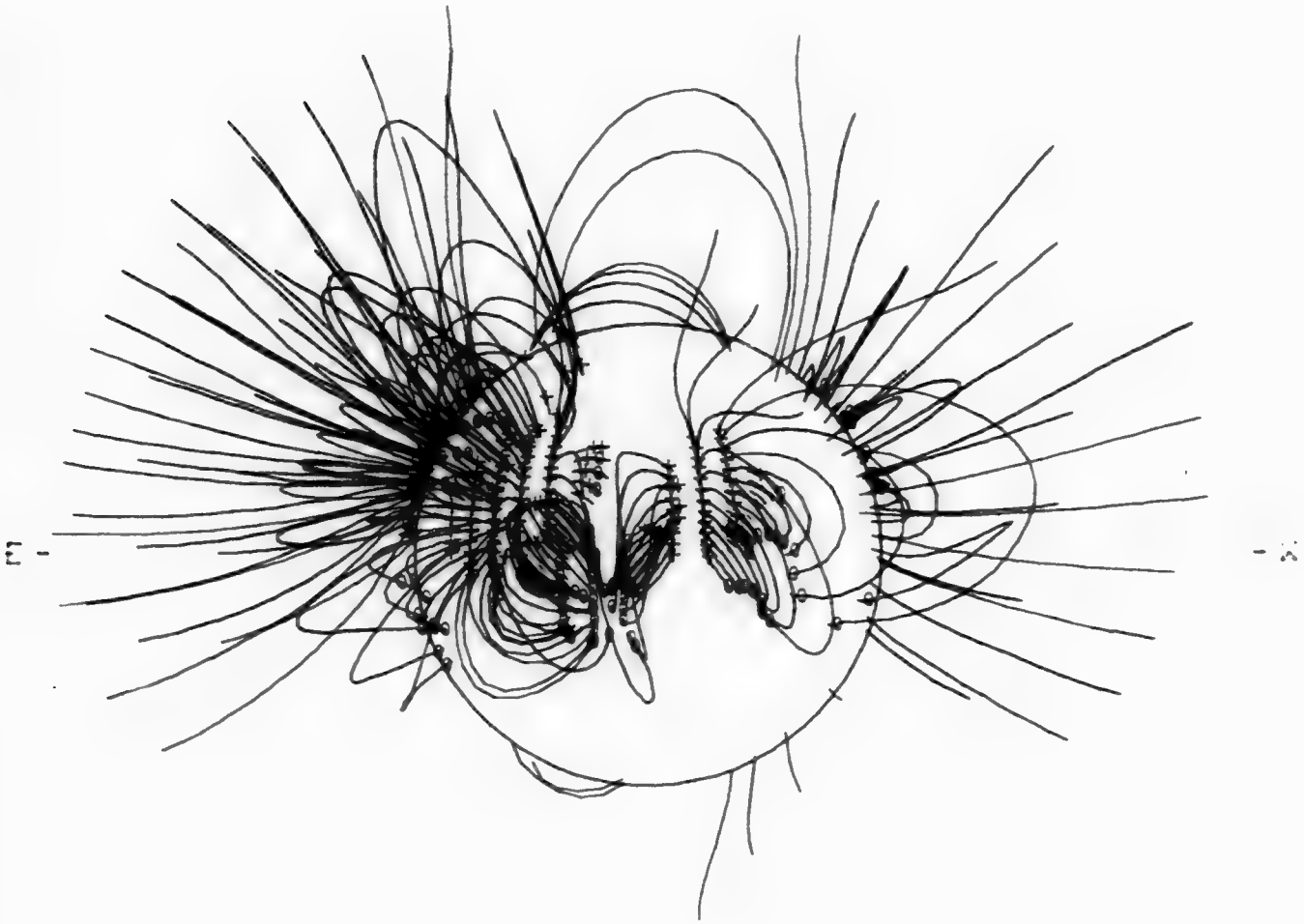
POLES DIRECT

DATA AVAILABLE 1545.00

ROT. 1545 LONG. 151°

16.0 MAR 1969

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



POLES DIRECT

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N

E -

- W

S

QUALITY 3.1

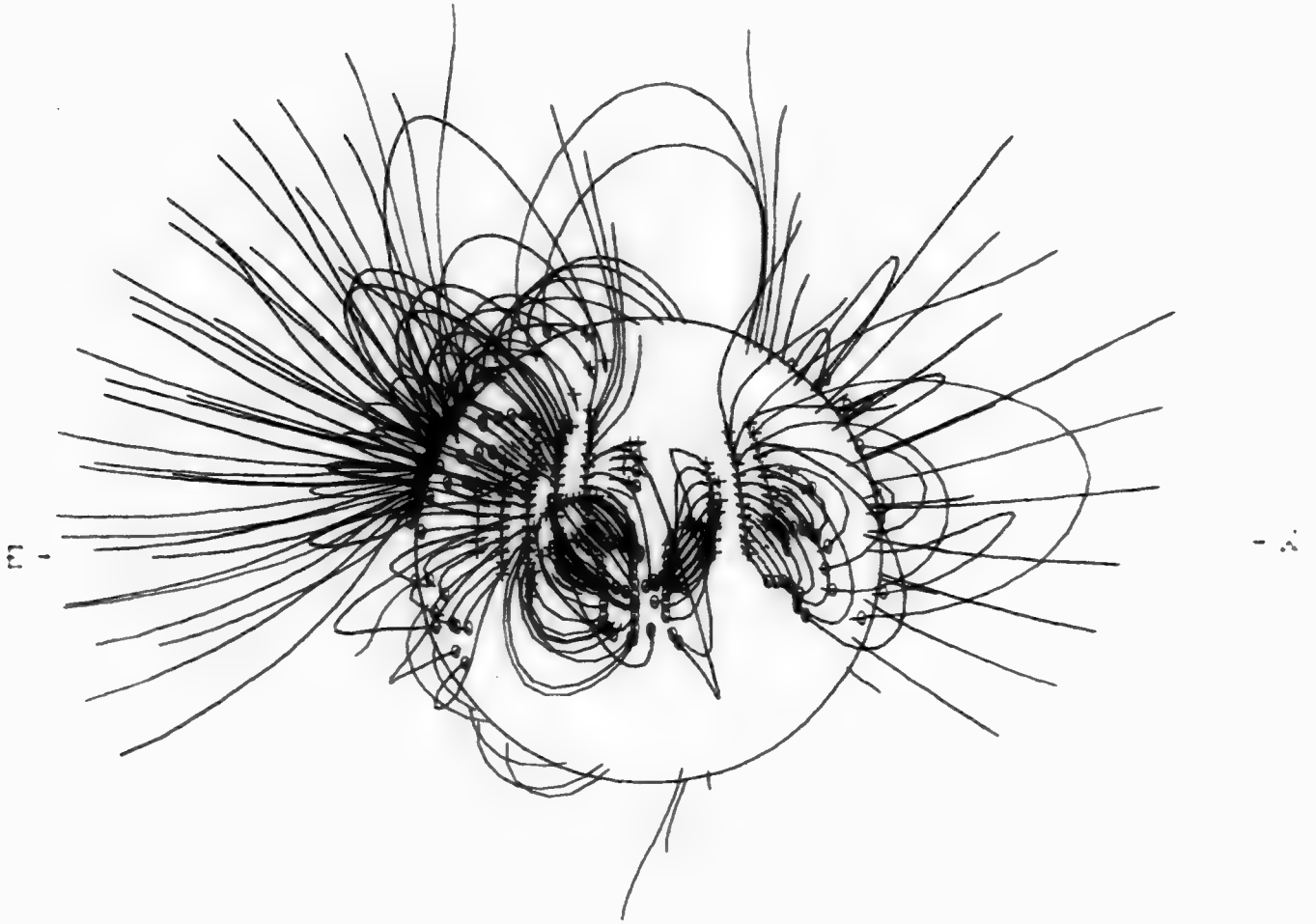
POLES DIRECT

DATA AVAILABLE 1545.00

ROT. 1545

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N



E

A

S

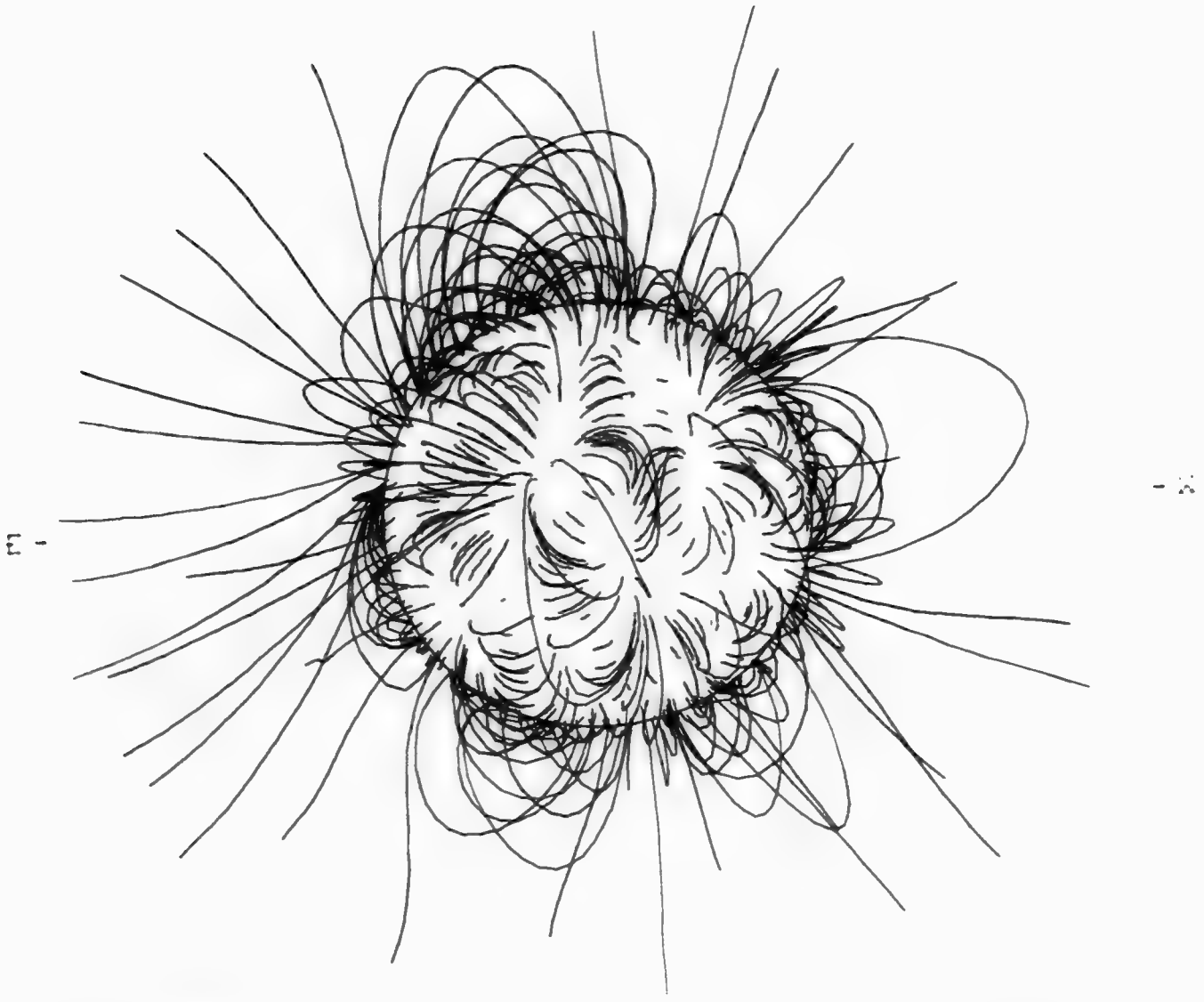
QUALITY GOOD

POLES DIRECT

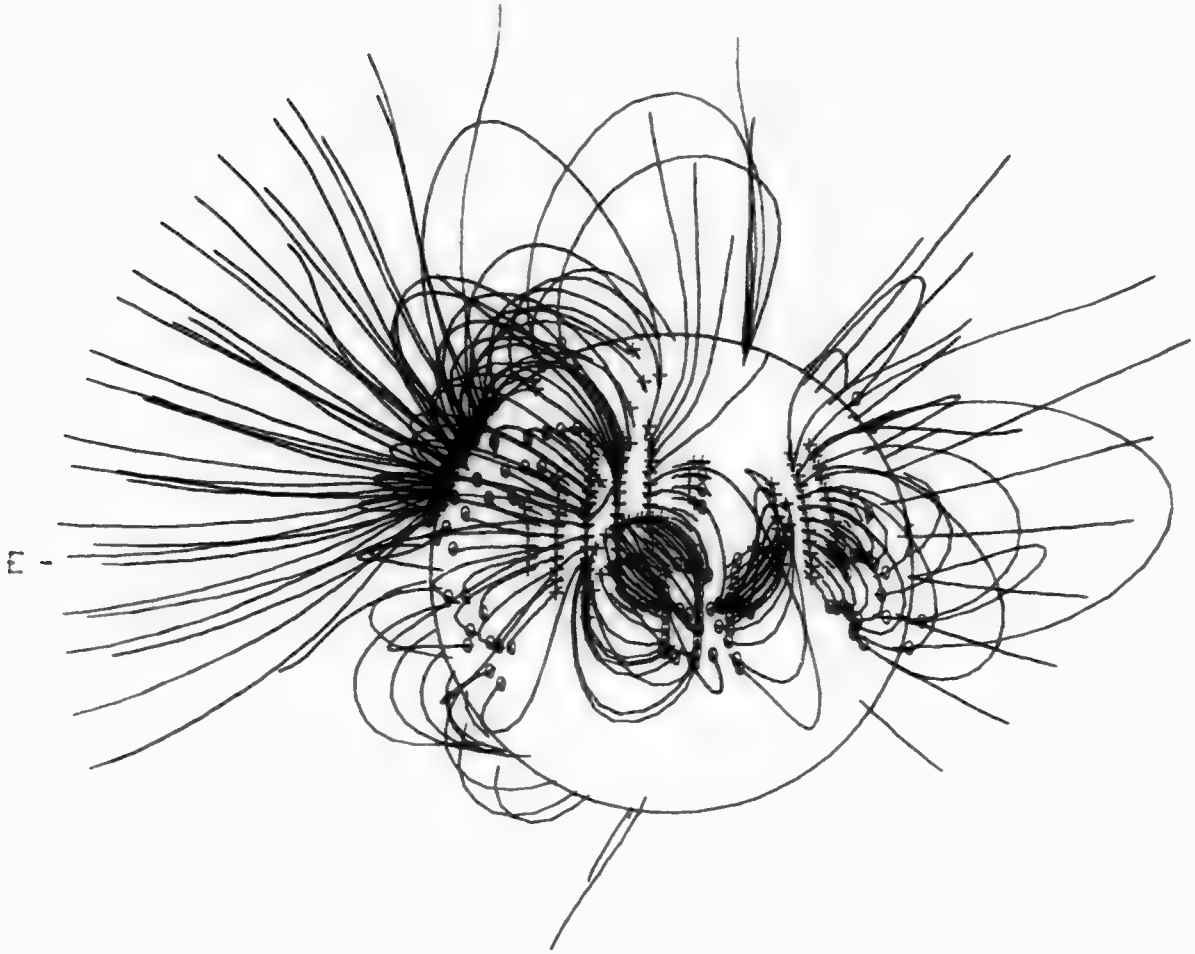
DATA WINDOW 1545.00

ROT. 1545

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



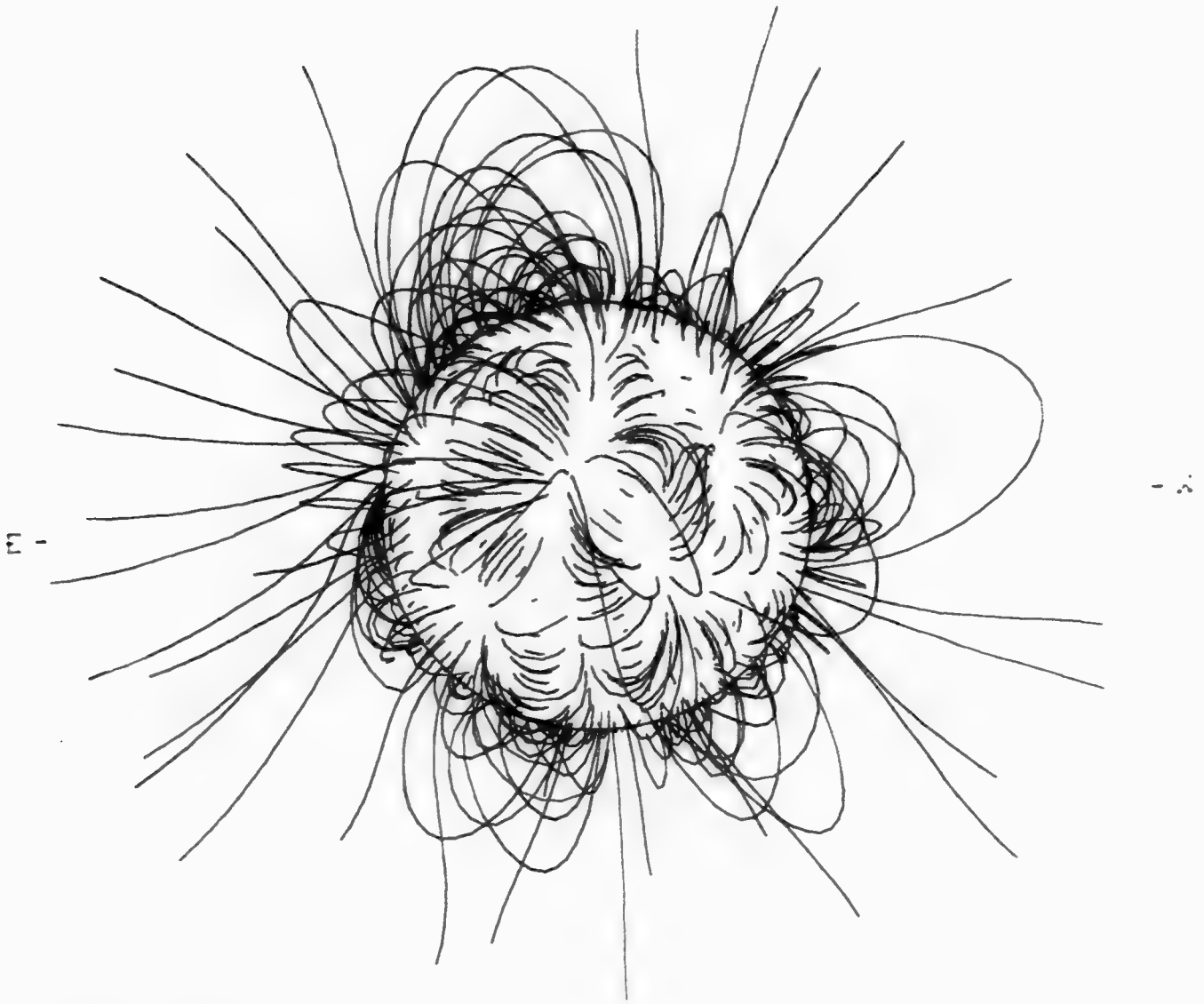
QUALITY GOOD

POLES DIRECT

DATA MADE AT 1545.00

ROT. 1545

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

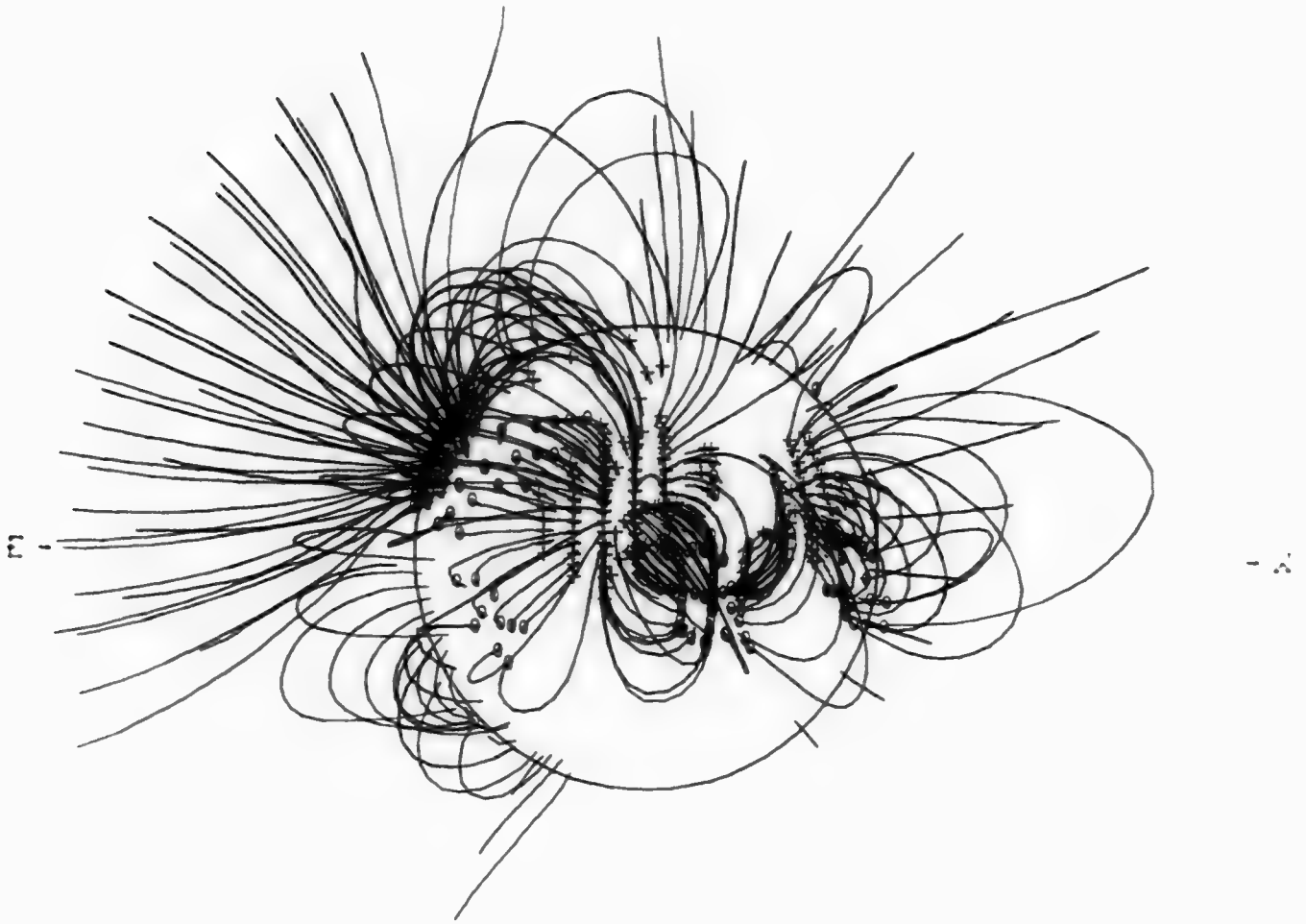


POLES DIRECT

DATA WINDOW 1545.00

18.2 YAR

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



QUALITY GOOD

POLES DIRECT

DATA AVAILABLE 1545.00

ROT. 1545 LONG. 21°

18.2 MAR 1965

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N

E -

- W

S

QUALITY GOOD

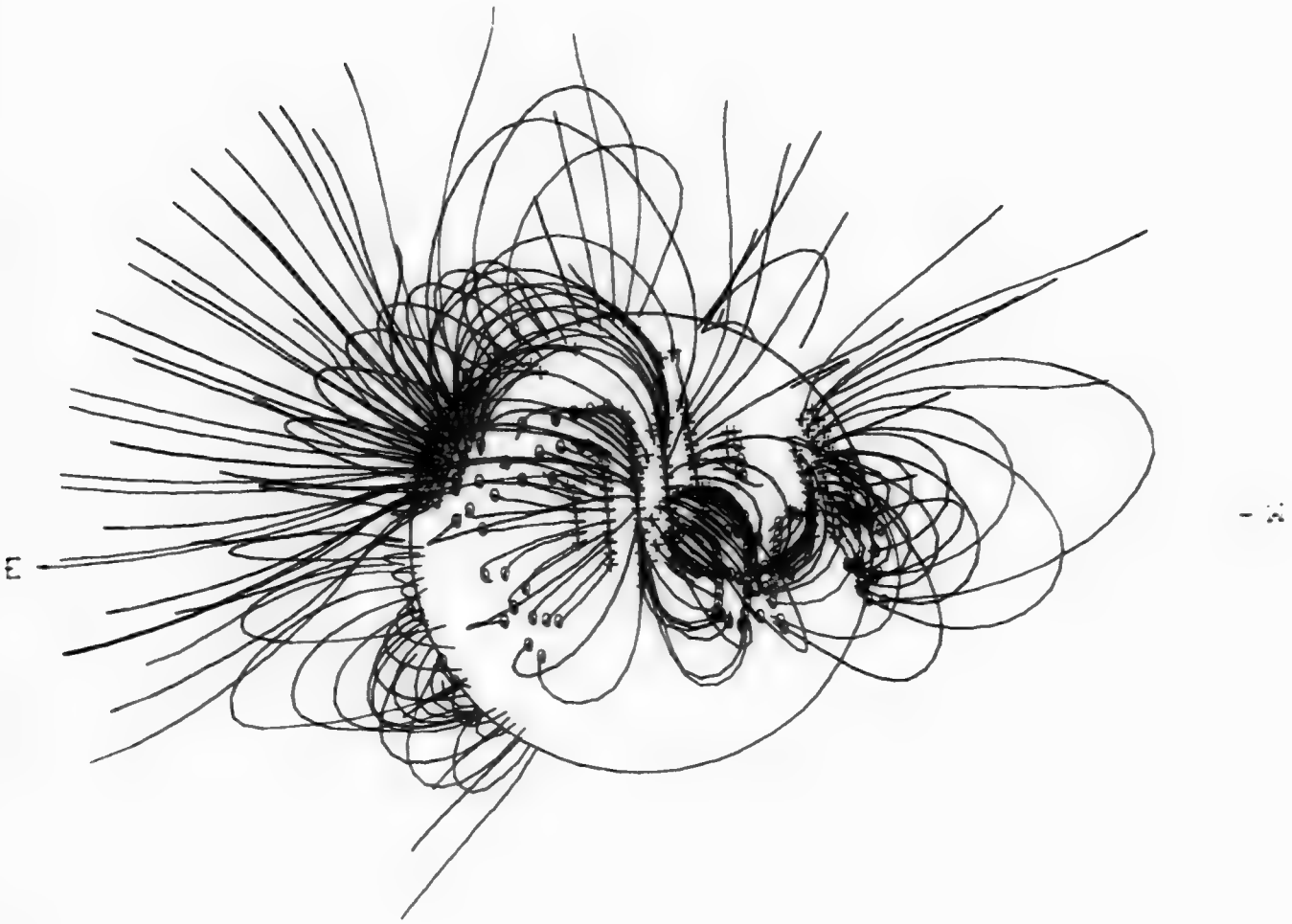
POLES DIRECT

DATA WINDOW 1545.00

ROT. 1545 LONG. [illegible]°

19.0 MAR 1969

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



QUALITY GOOD

POLES DIRECT

DATA AVAILABLE 1545.00

S

ELT. 1545 LONG. [illegible]°

[illegible]° MAR [illegible]

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N

E -

- W

S

QUALITY GOOD

RULES DIRECT

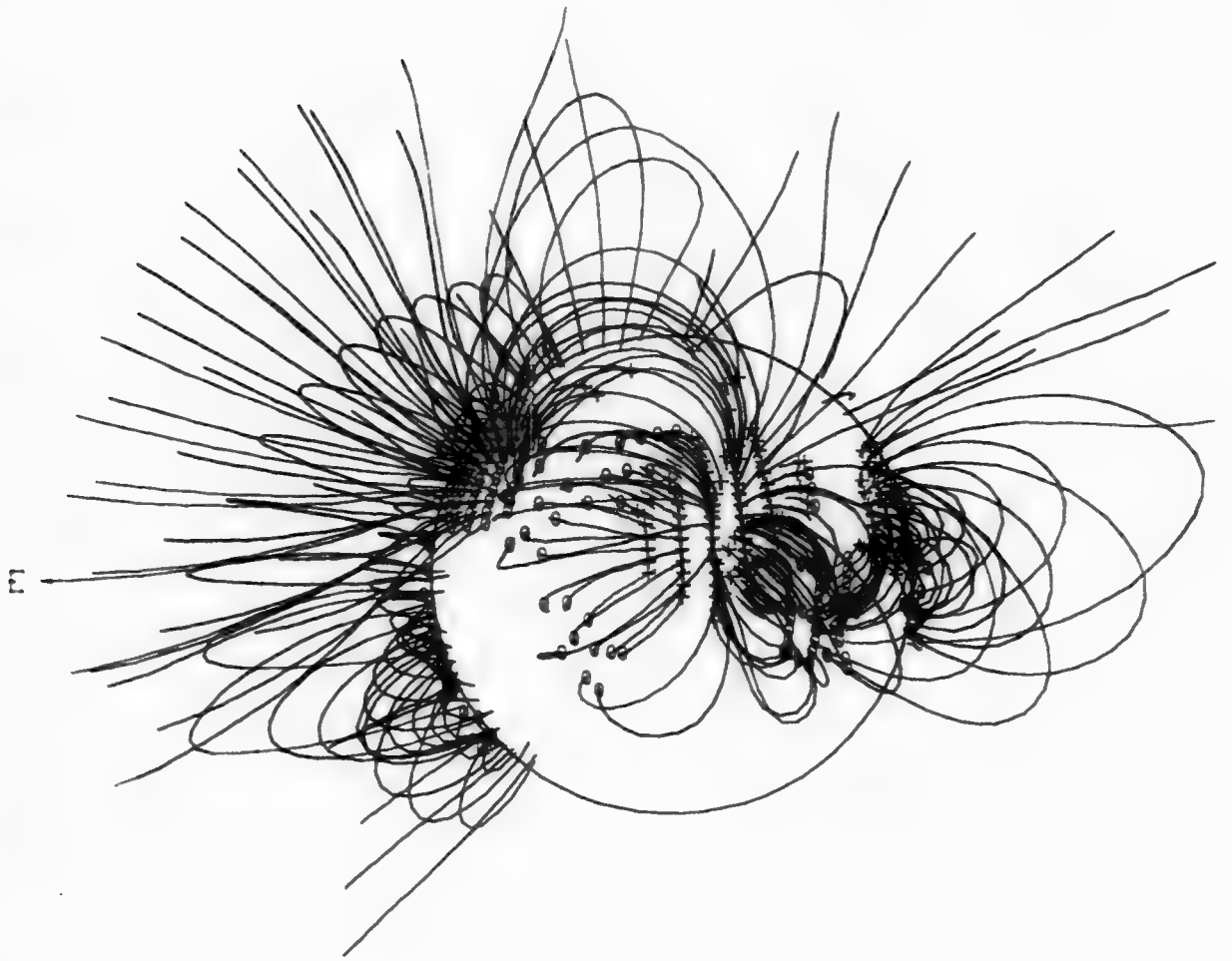
DATA WINDOW 1545.00

R.T. 1545 LONG. 100°

19.8 MAR 1969

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N



E

A

QUALITY [illegible]

POLES DIRECT

DATA WINDOW 1545.00

S

R.T. 1545 LONG. [illegible]°

19.8 MAR 1964

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N

E -

- W

S

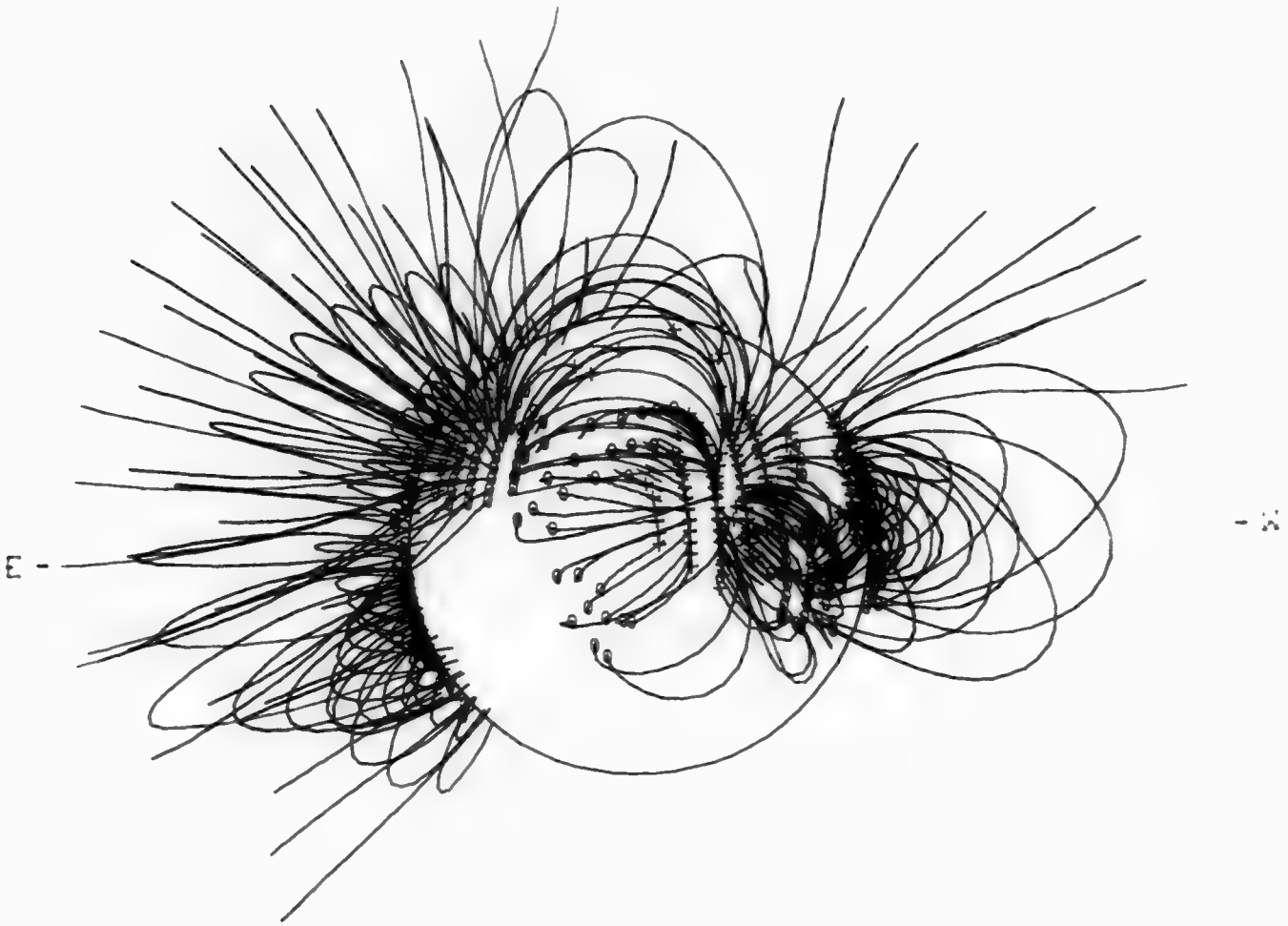
QUALITY 0030

POLES DIRECT

DATA WINDOW 1545.00

ROT. 1545

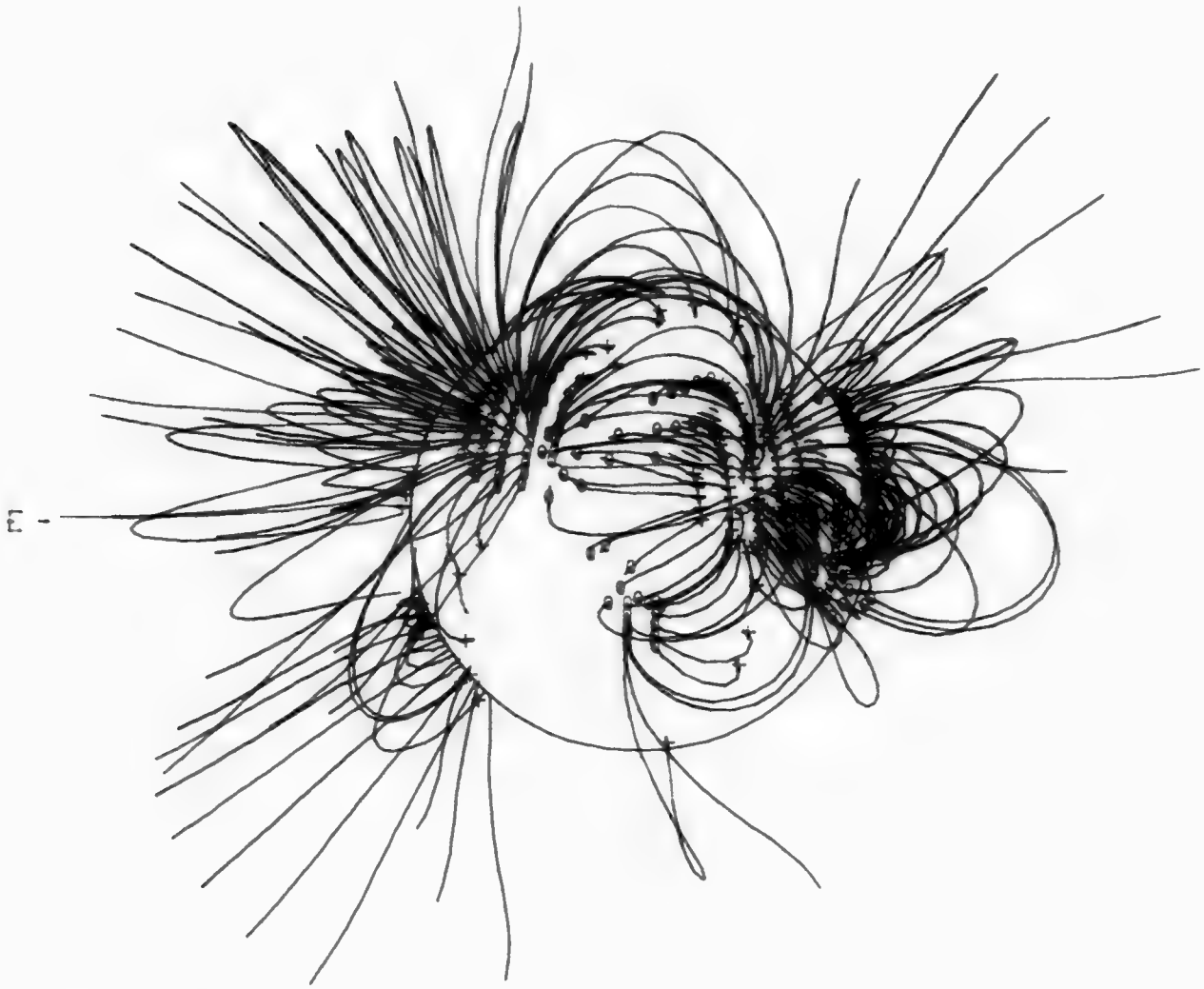
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



[illegible]

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

QUALITY GOOD

POLES DIRECT

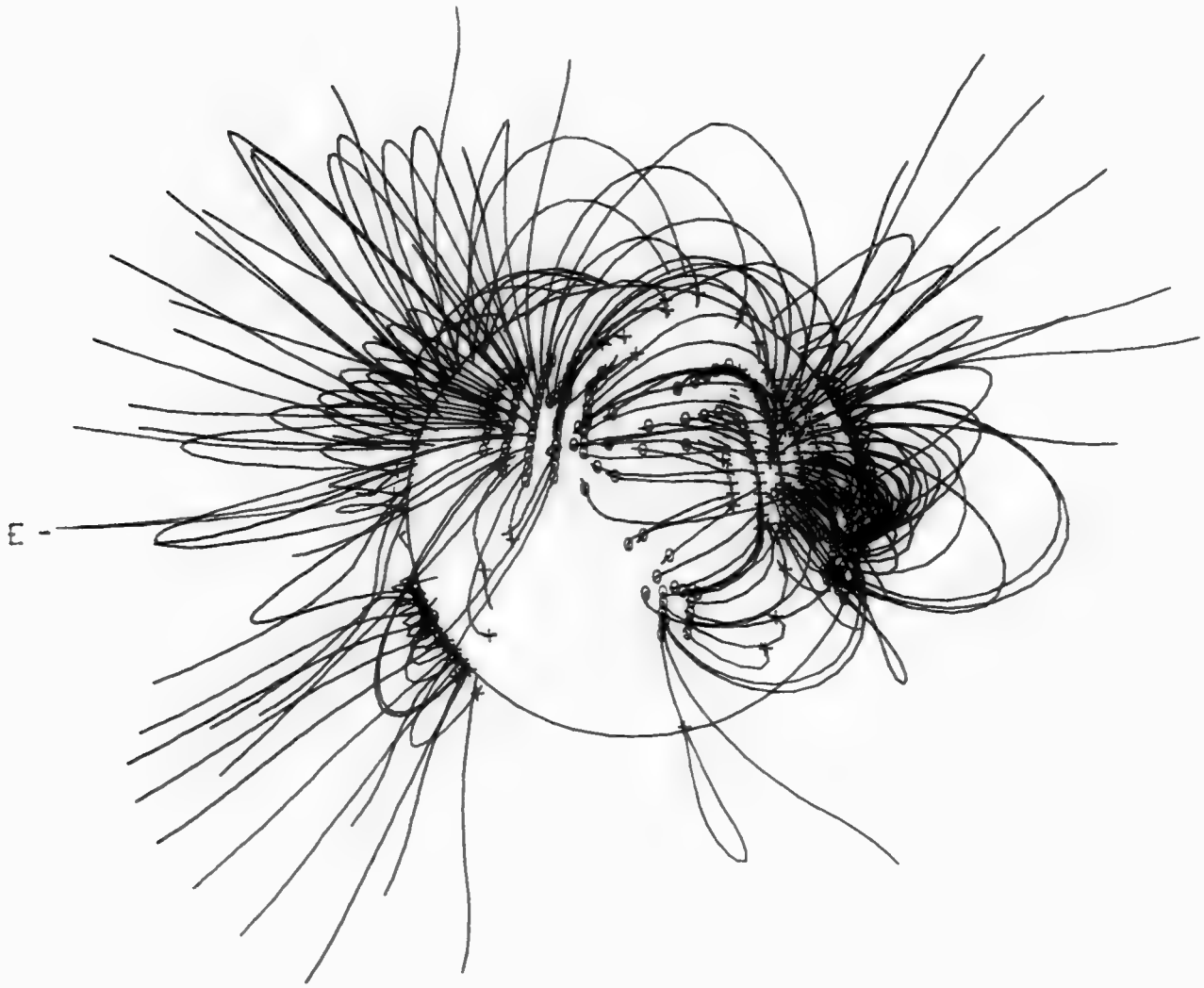
DATA AVERAGED 1545.47

R.T. 1545 L.O.S. 71°

22 MAR 1969

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N



S

QUALITY 0000

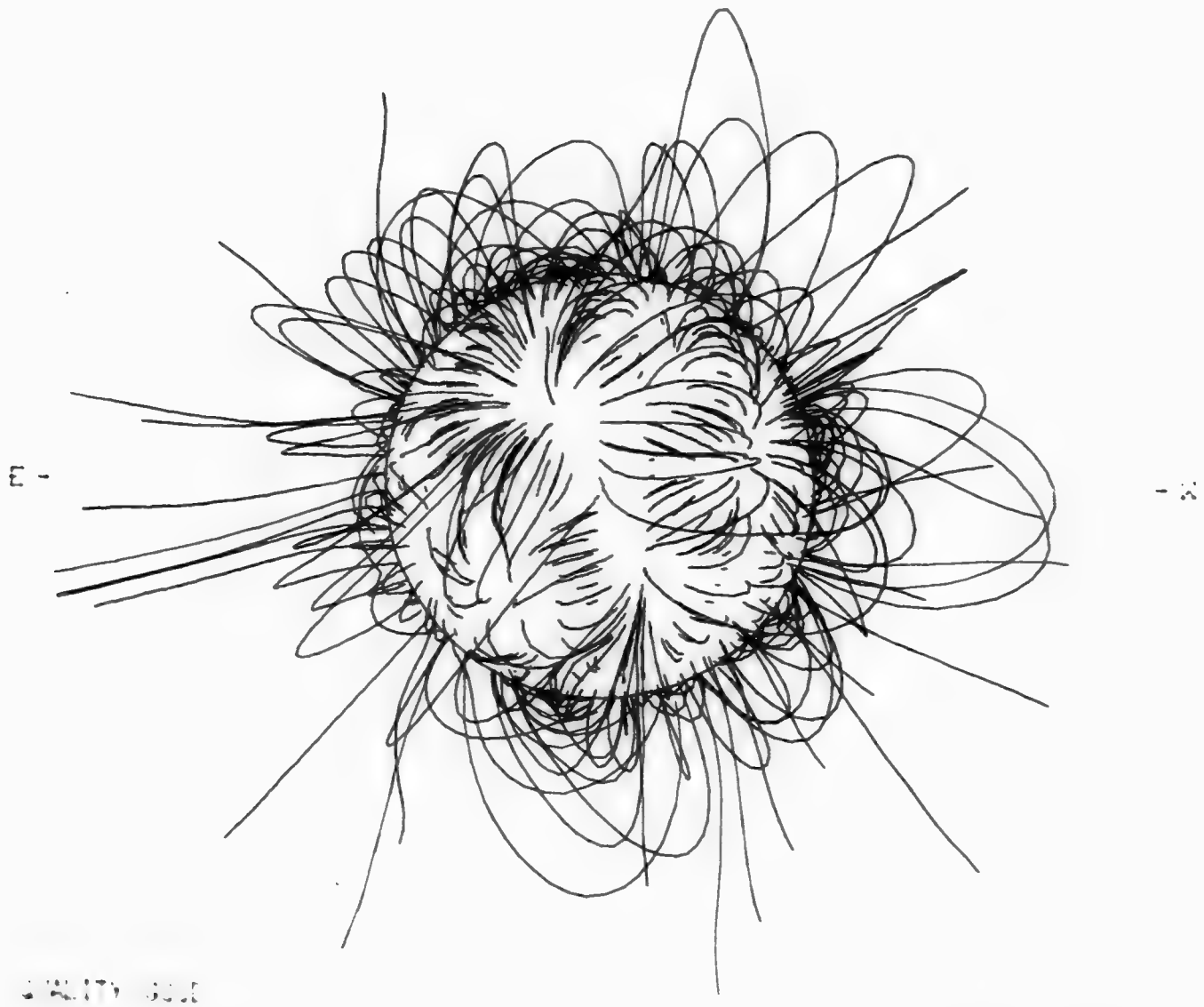
POLES DIRECT

DATA WINDOW 1545.47

ROT. 1545 [illegible]

22.0 MAR [illegible]

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



POLES DIRECT

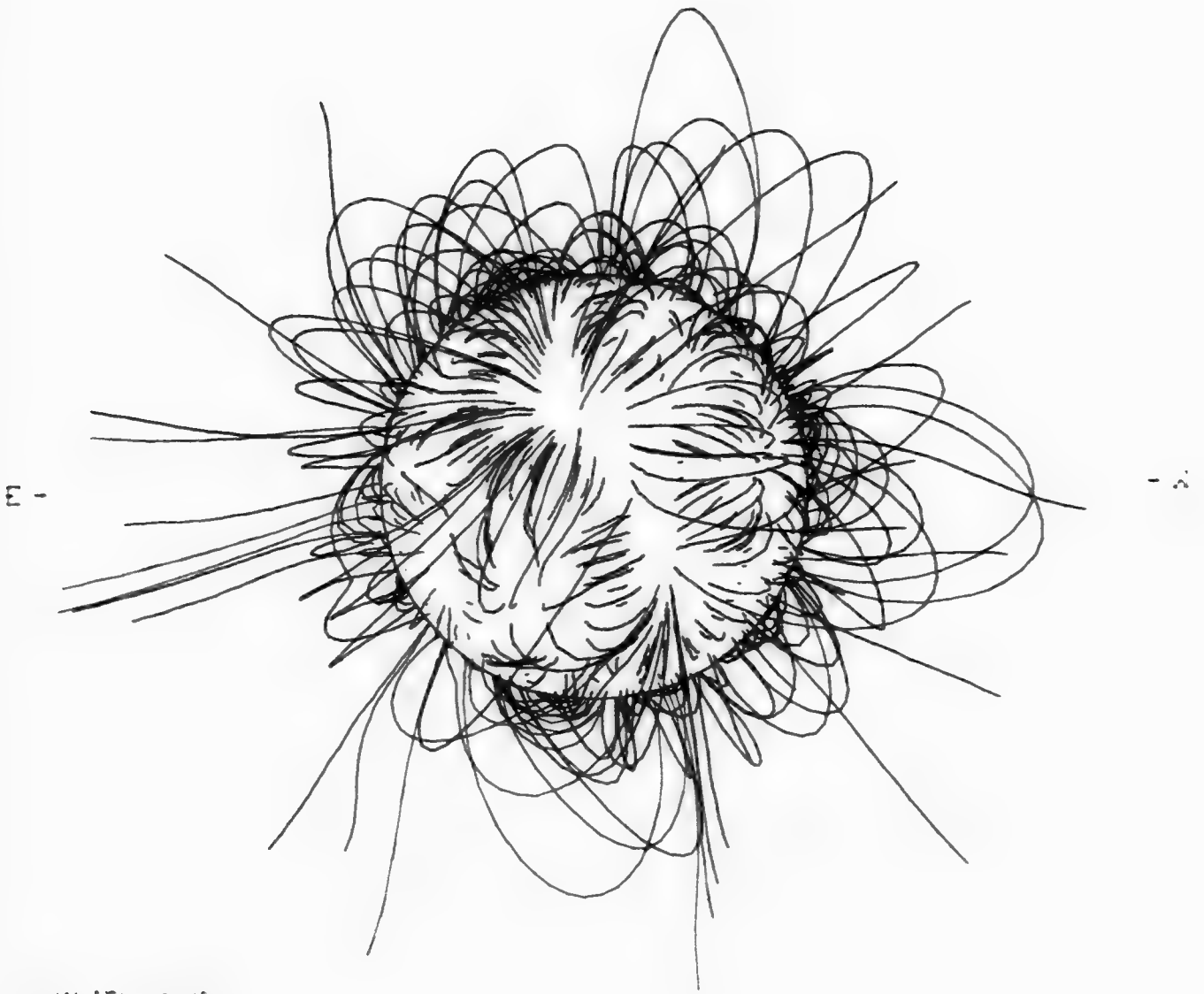
DATA WINDOW 1545.4T

R.T. 1545 LONG. 61°

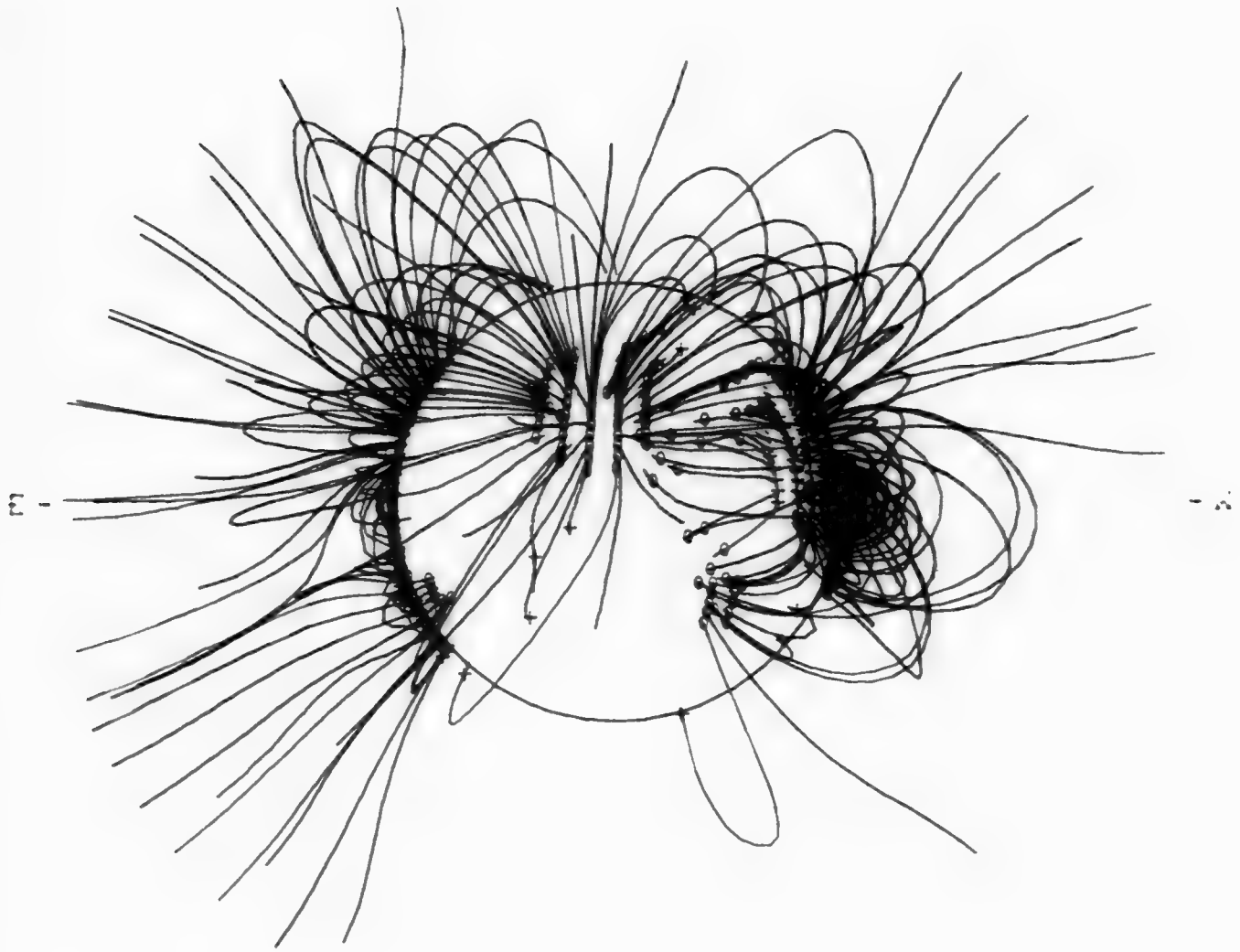
22.8 MAR 1969

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

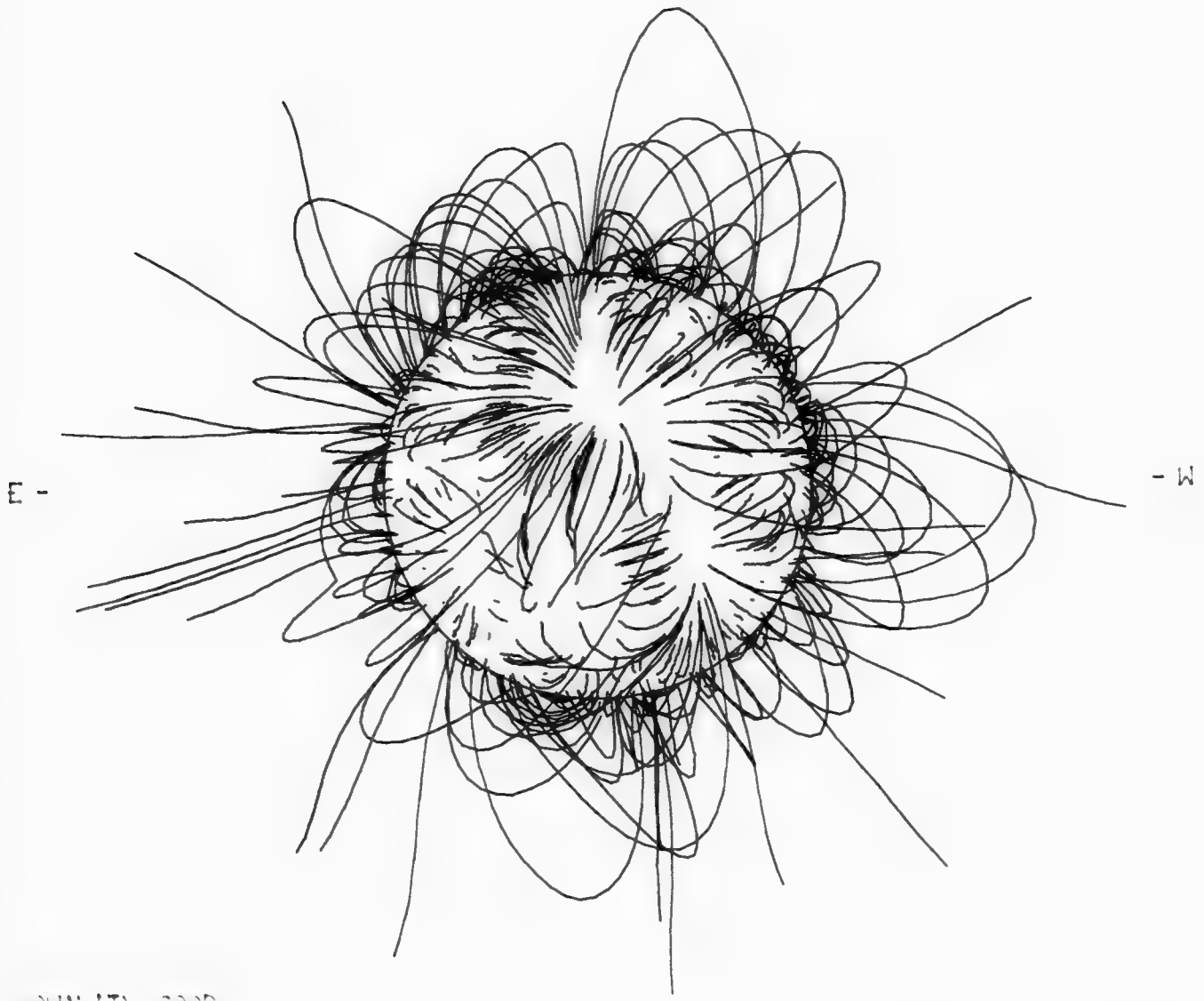
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



QUALITY GOOD

POLES DIRECT

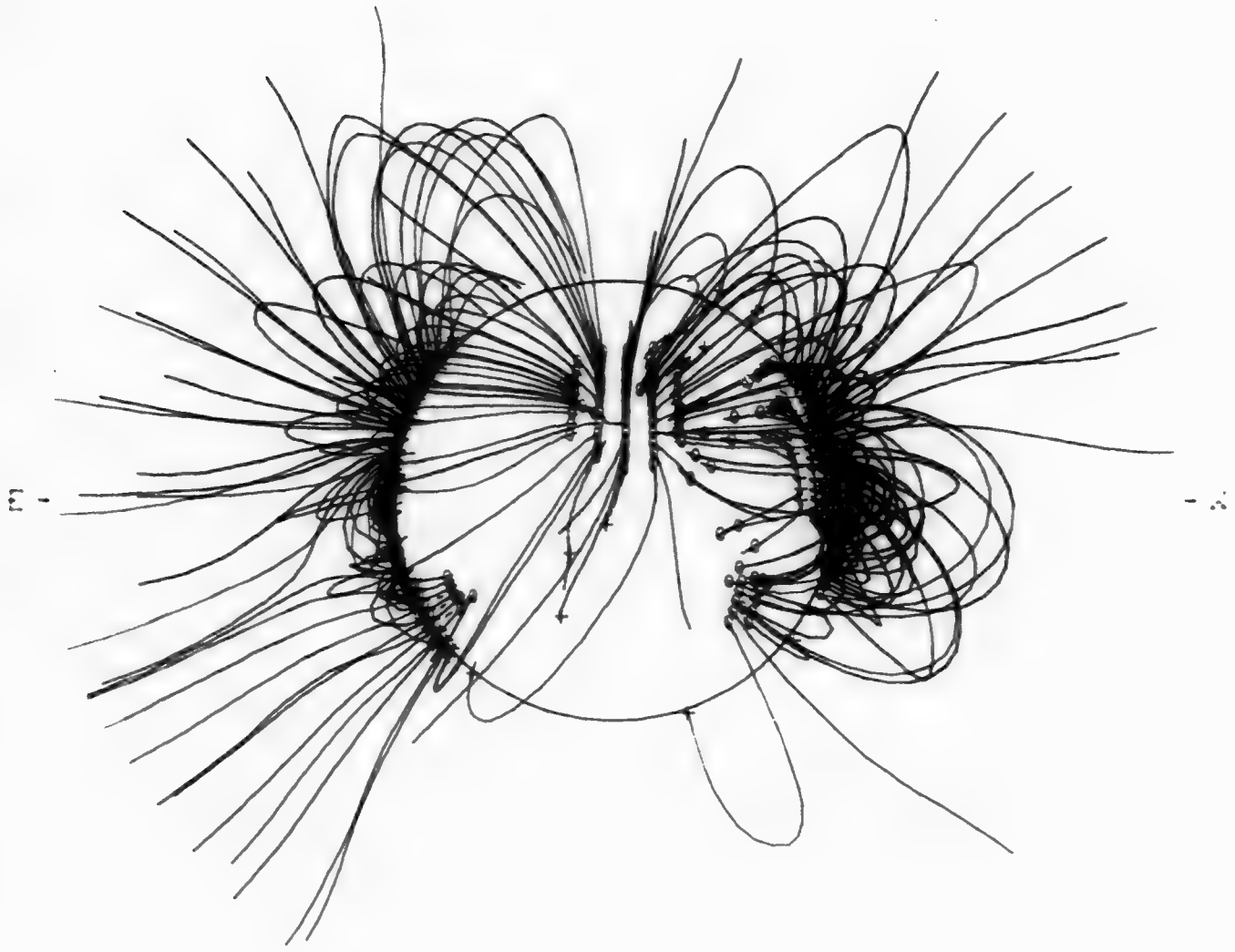
DATA WINDOW 1545.47

ROT. 1545 LONG. 40°

24.3 MAR 1969

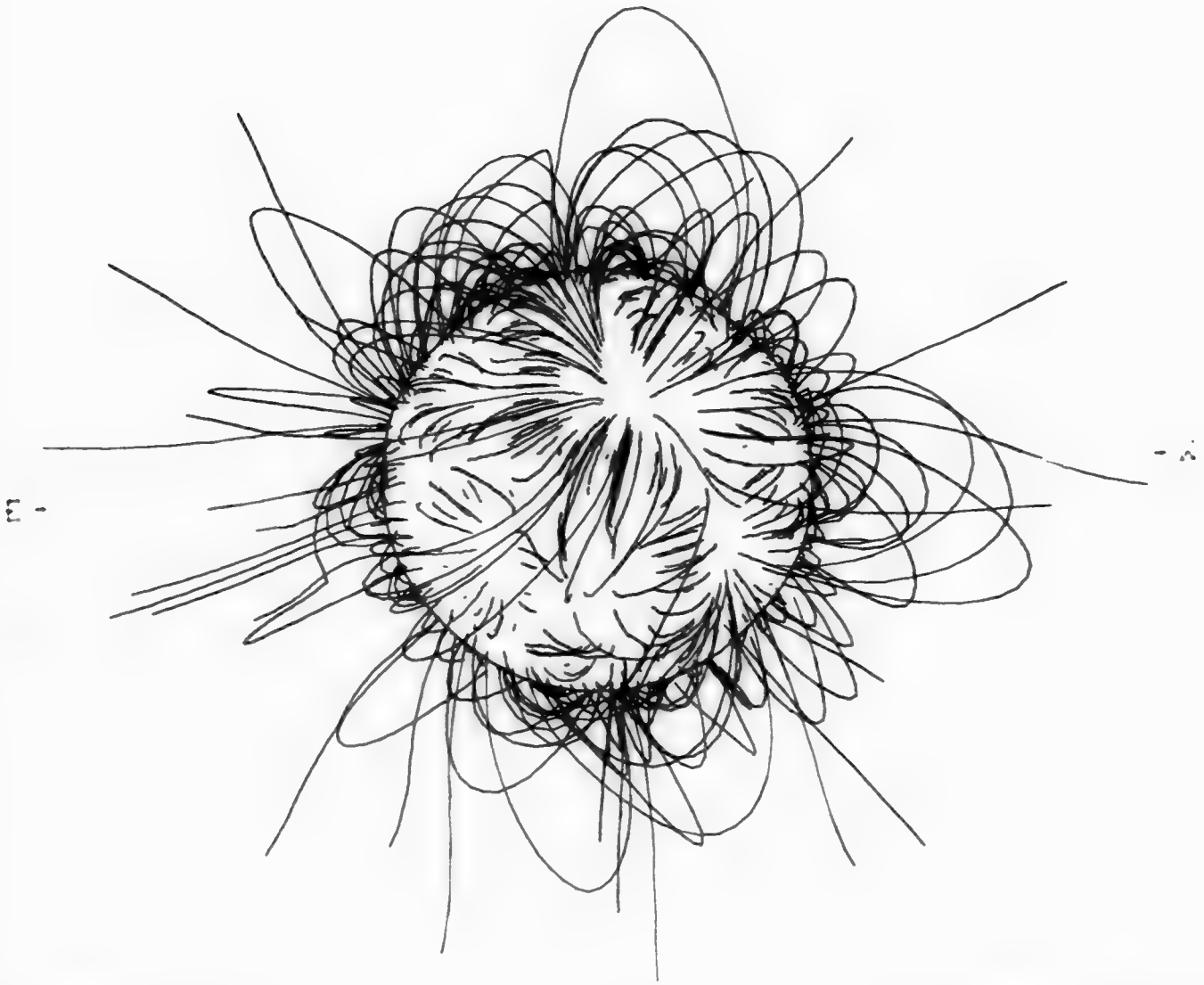
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N

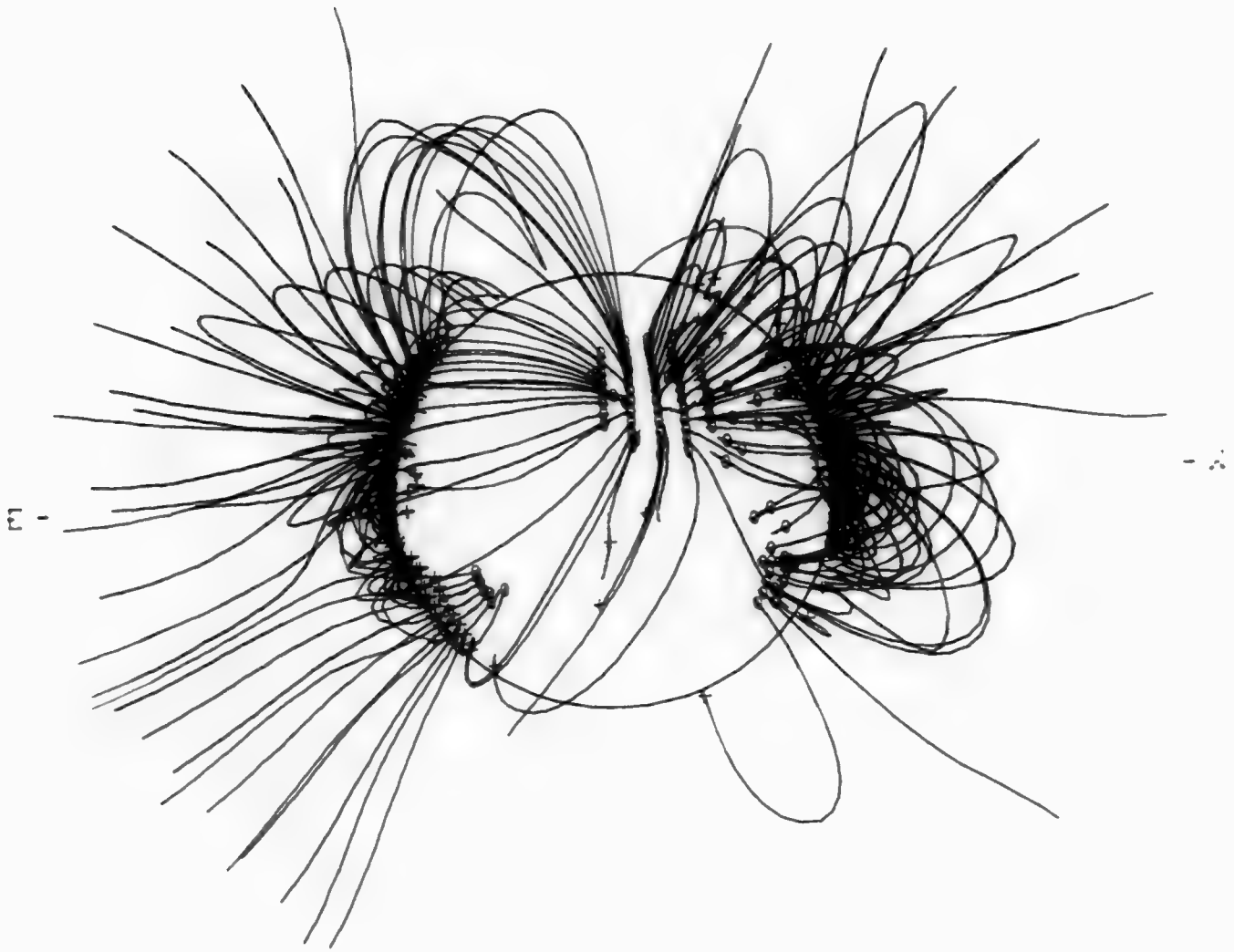


S

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



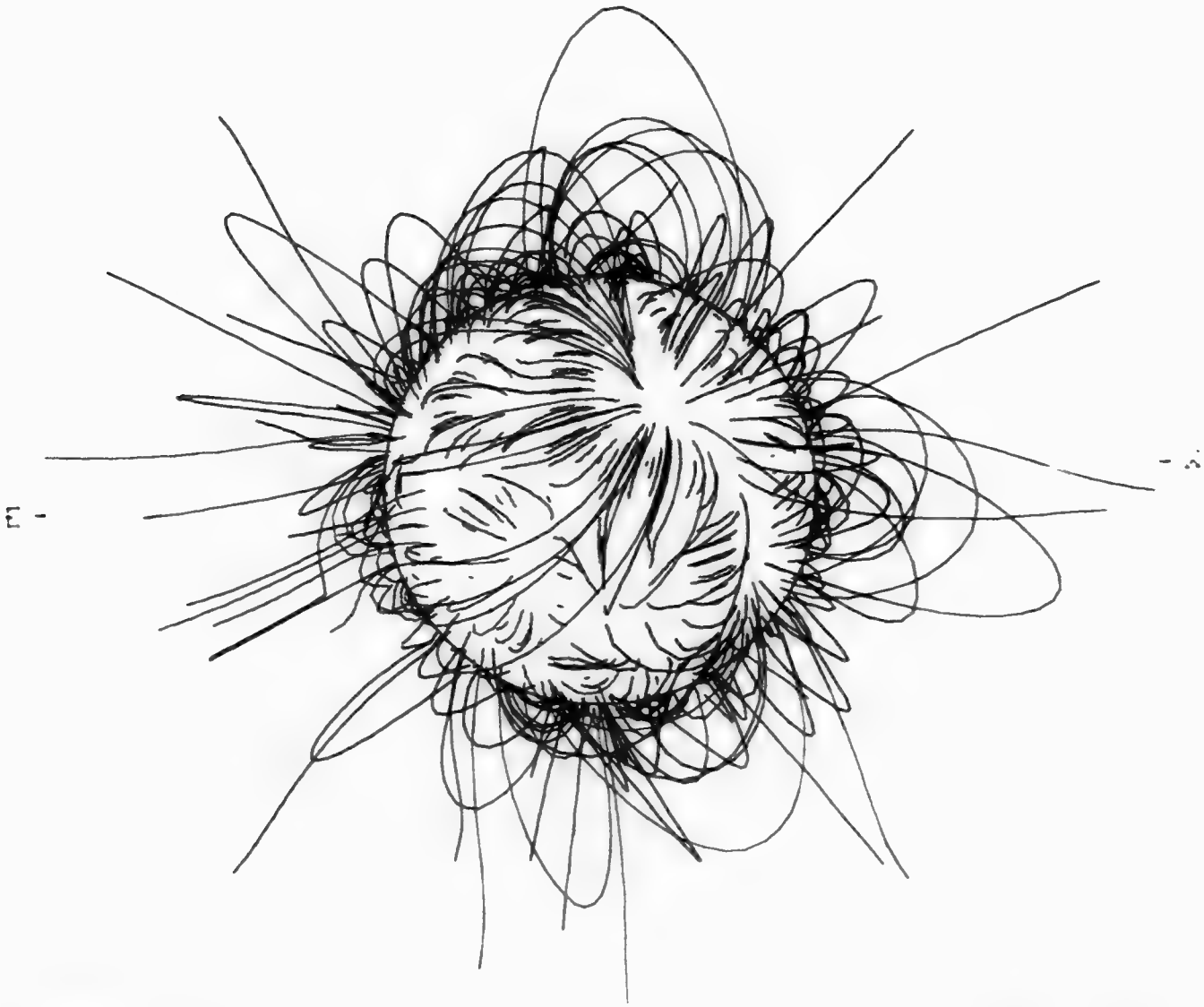
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



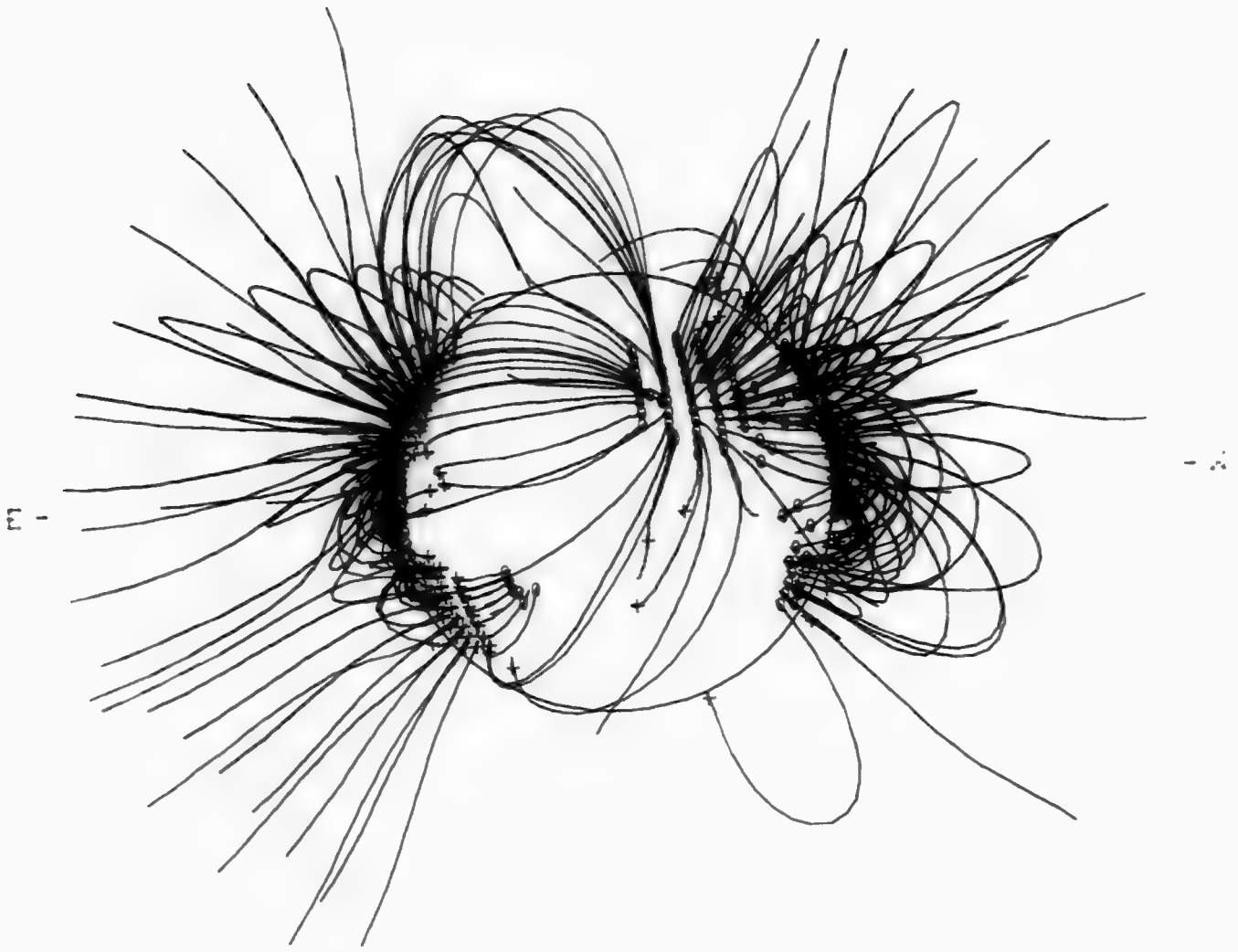
POLES DIRECT

S

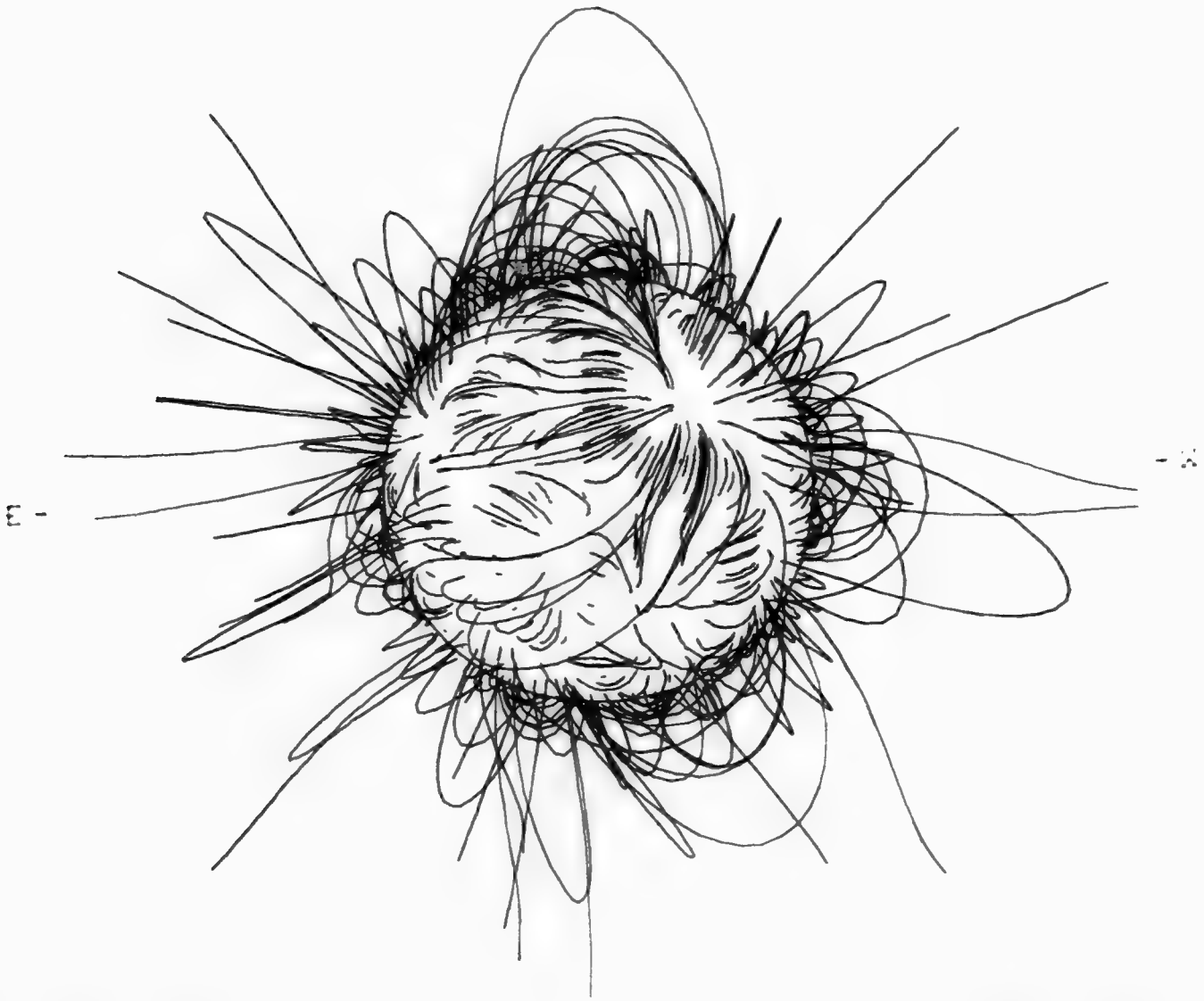
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



QUALITY GOOD

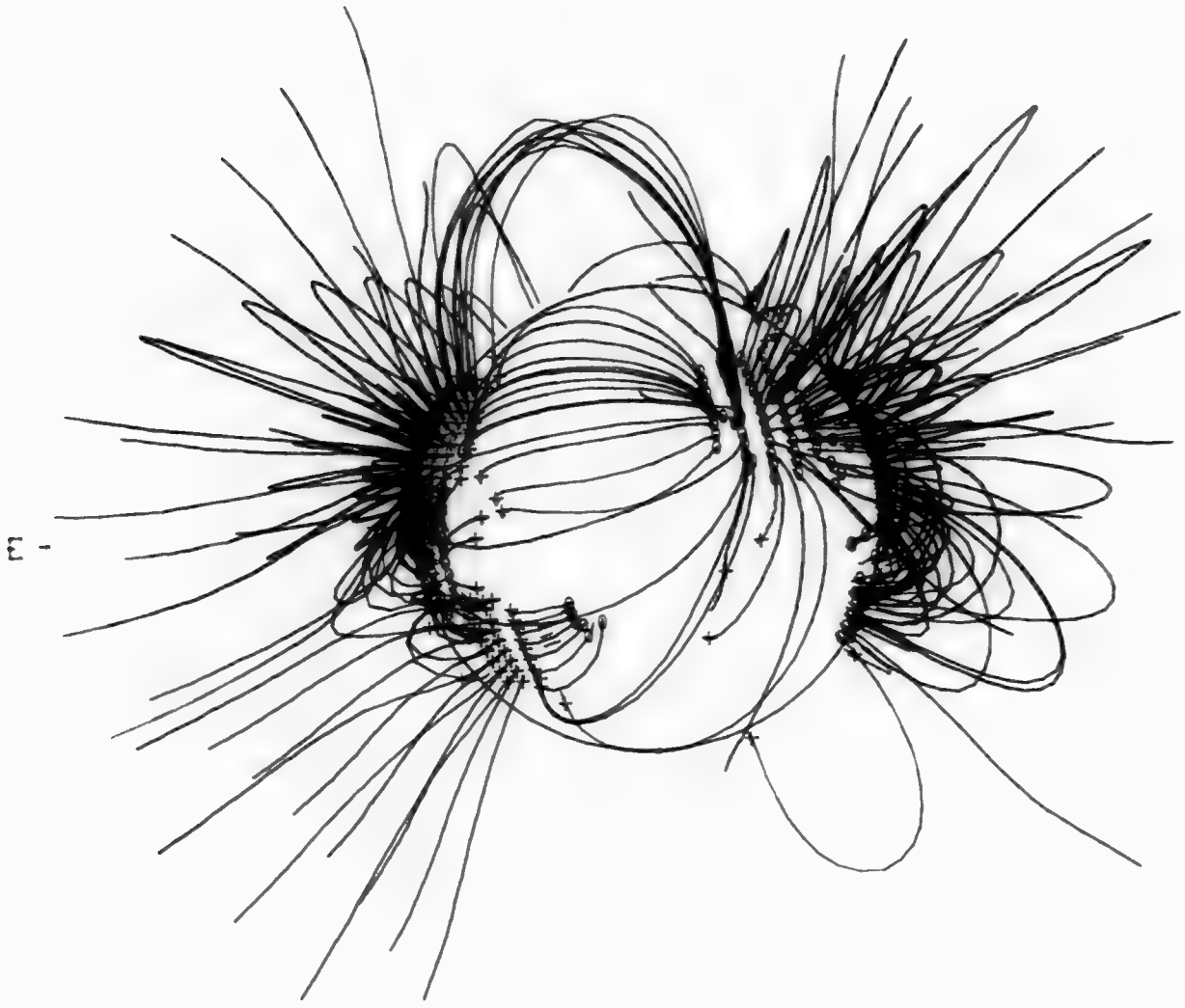
POLES DIRECT

DATA WINDOW 15:45.4"

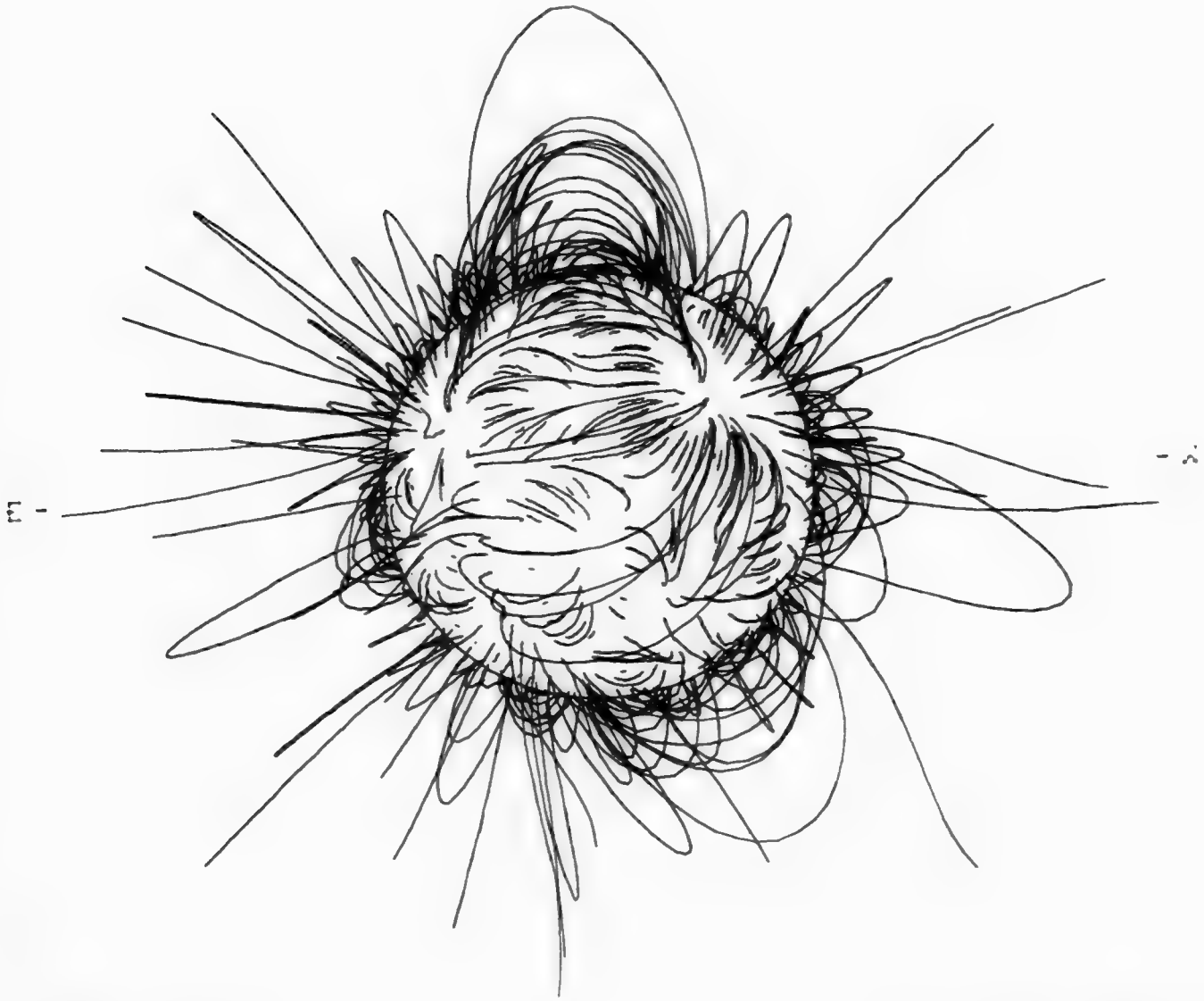
R.T. 15:45

25.6 MAR

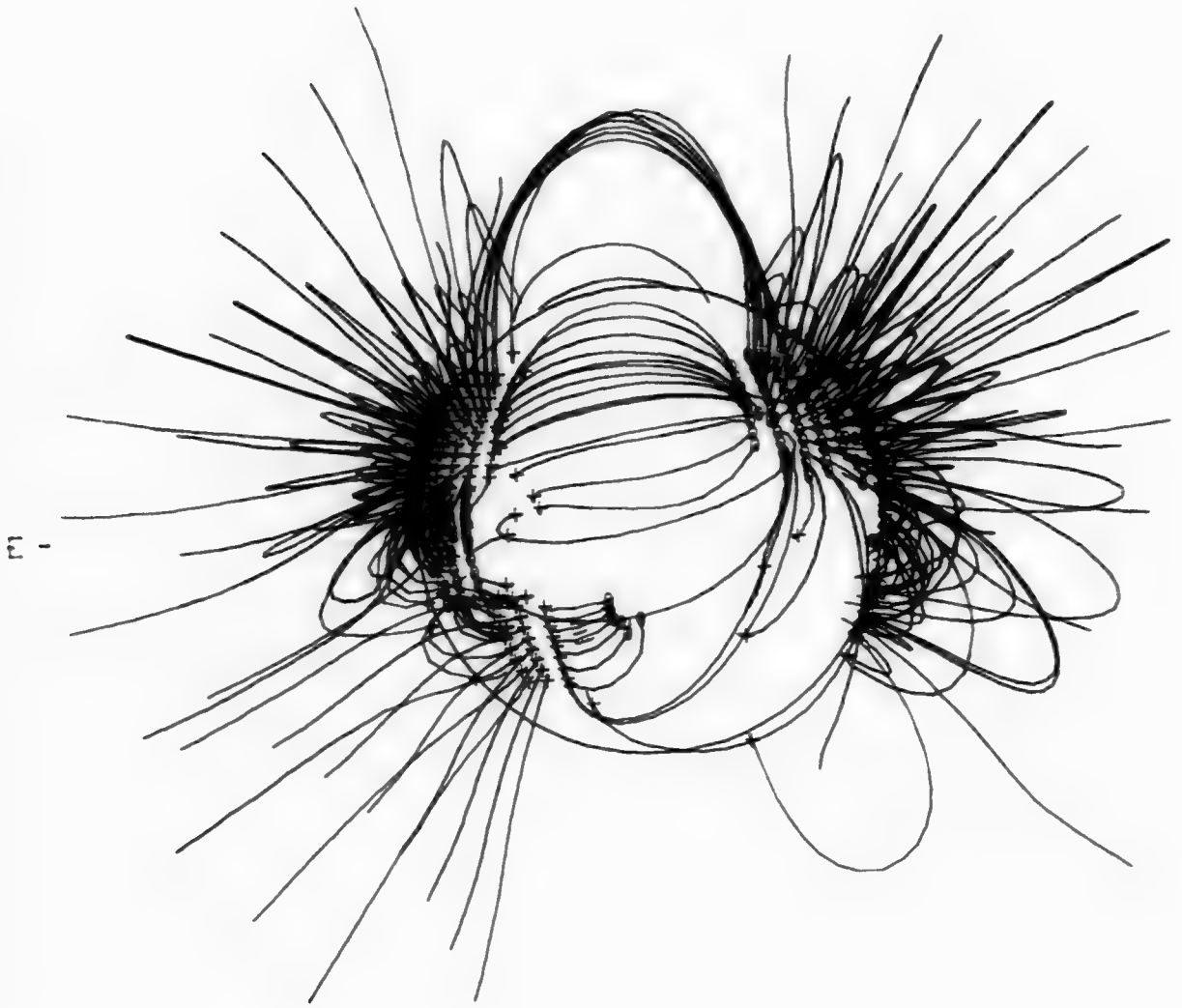
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

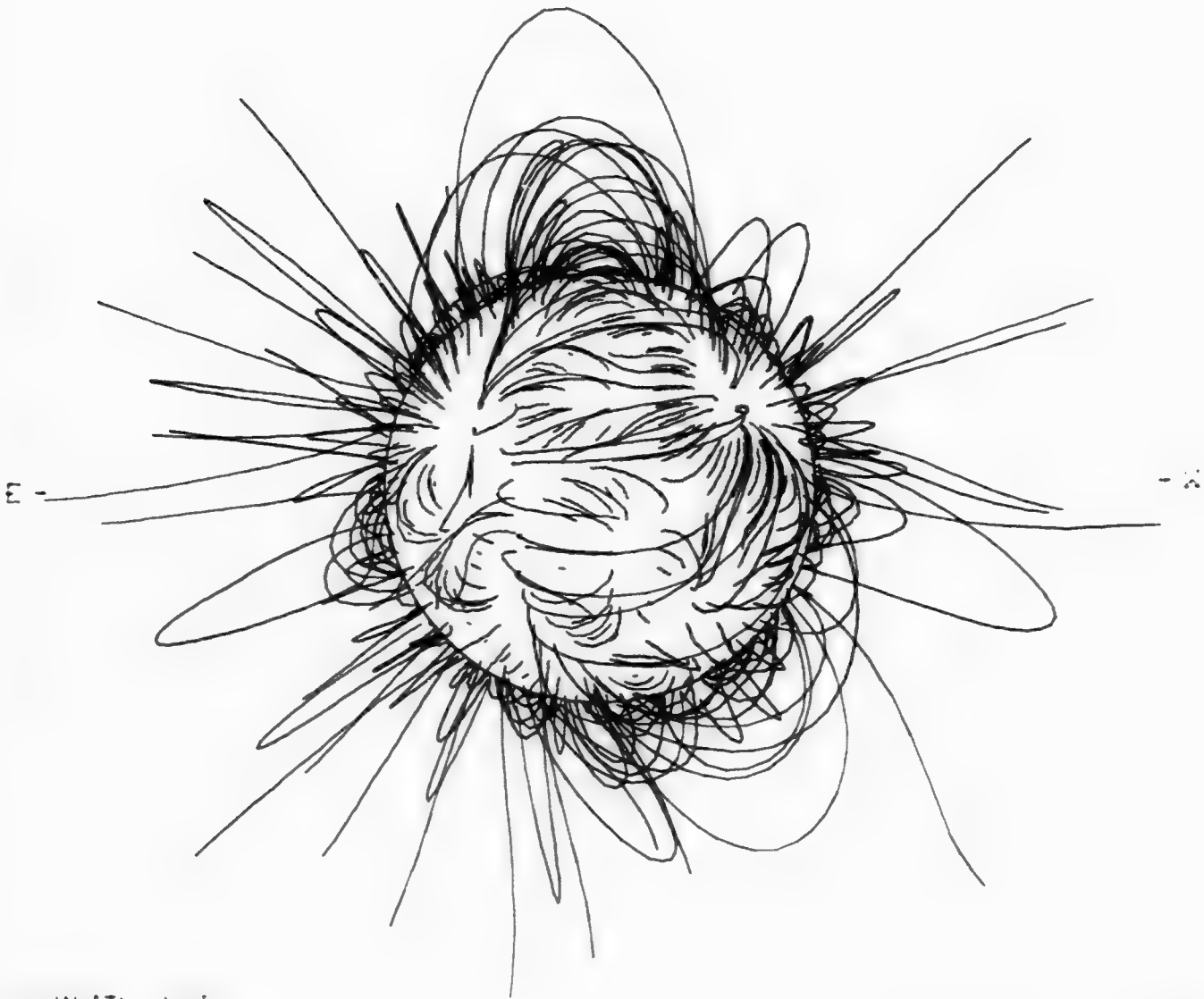


HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



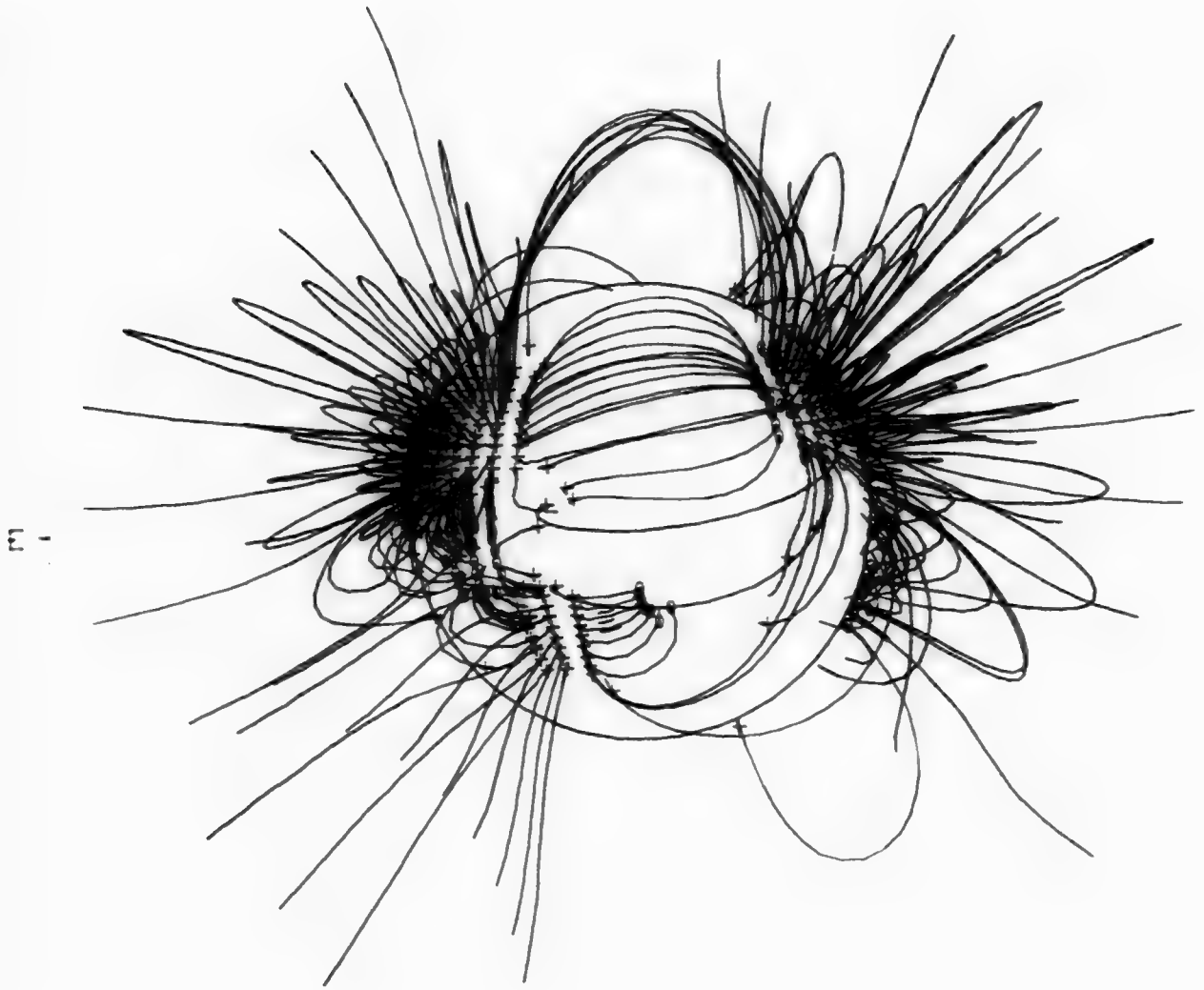
POLES DIRECT

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

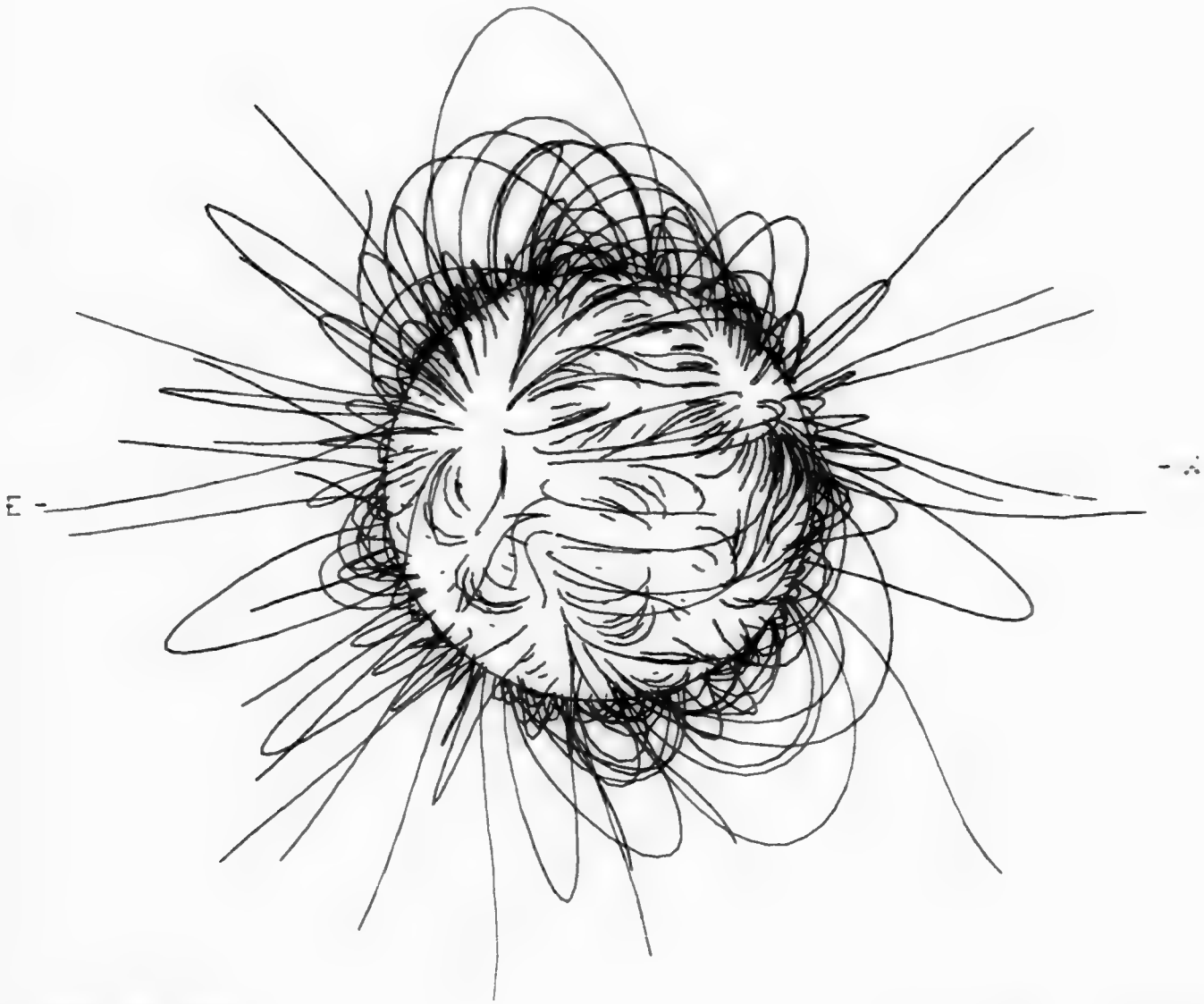


HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N



HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



QUALITY [illegible]

POLES DIRECT

DATA [illegible]

R.T. [illegible]

28.9 MAR 1964

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N

E -

- A

S

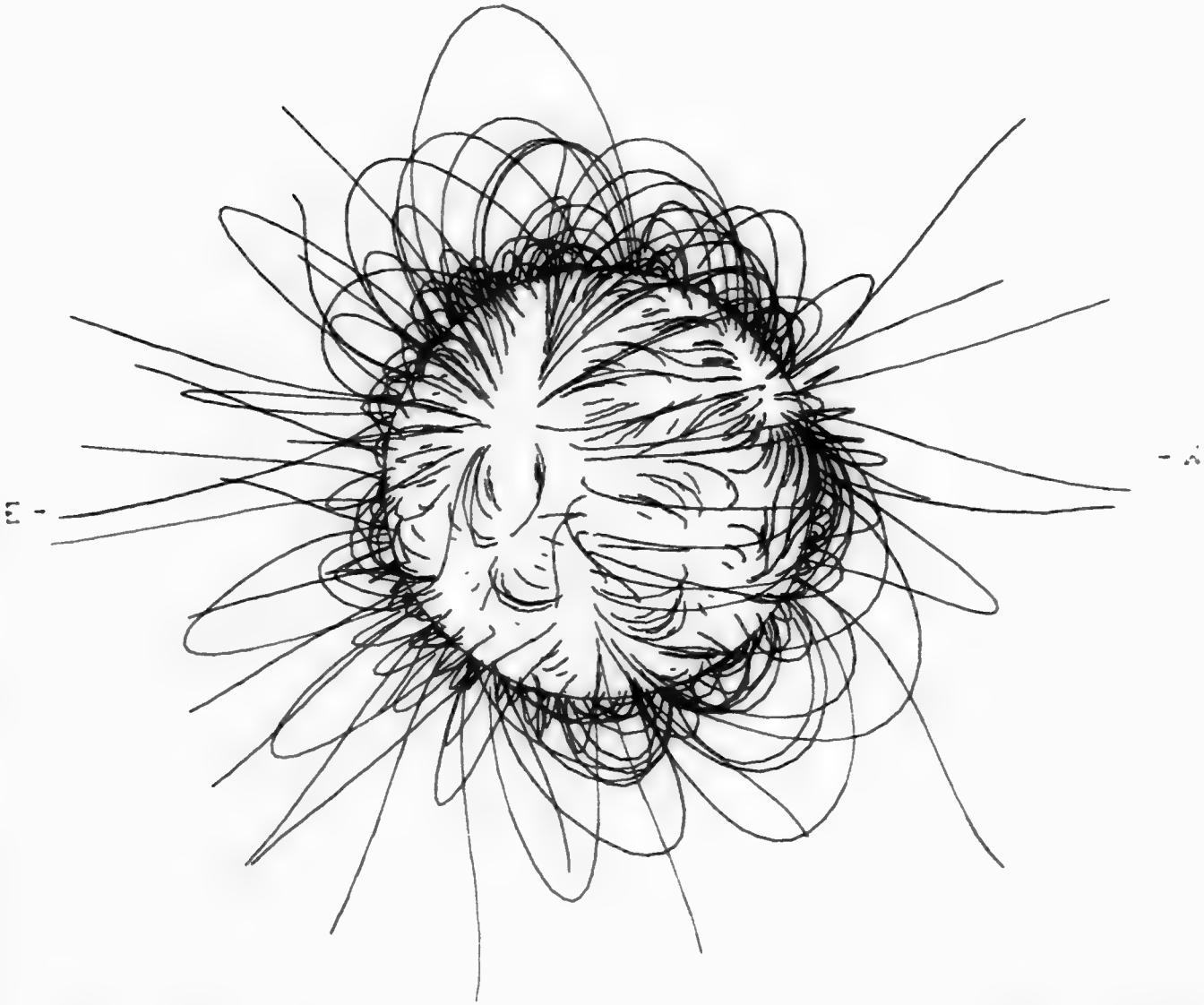
QUALITY GOOD

FILES CURRENT

DATA WINDOW 15:35.4"

28.9 MAR

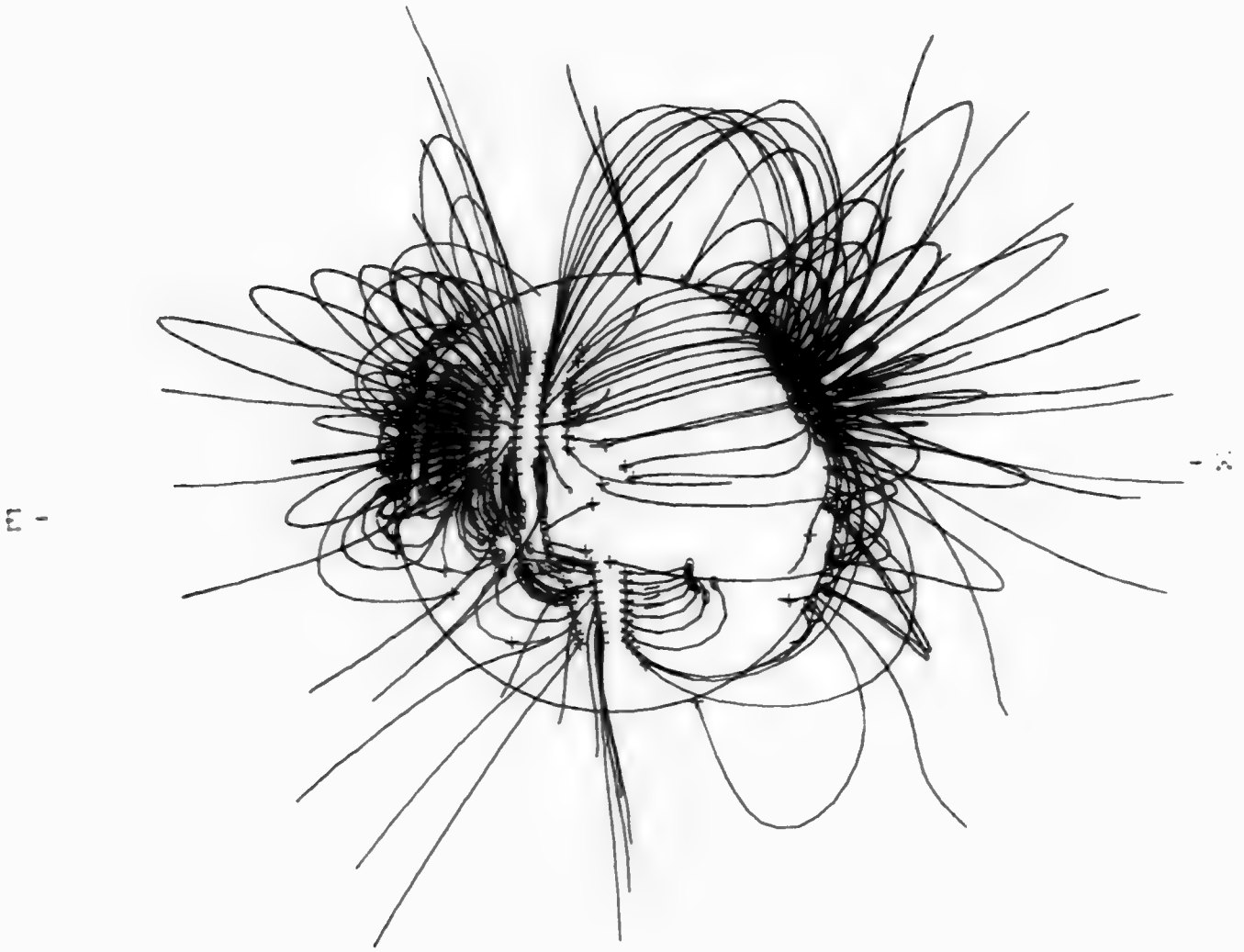
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



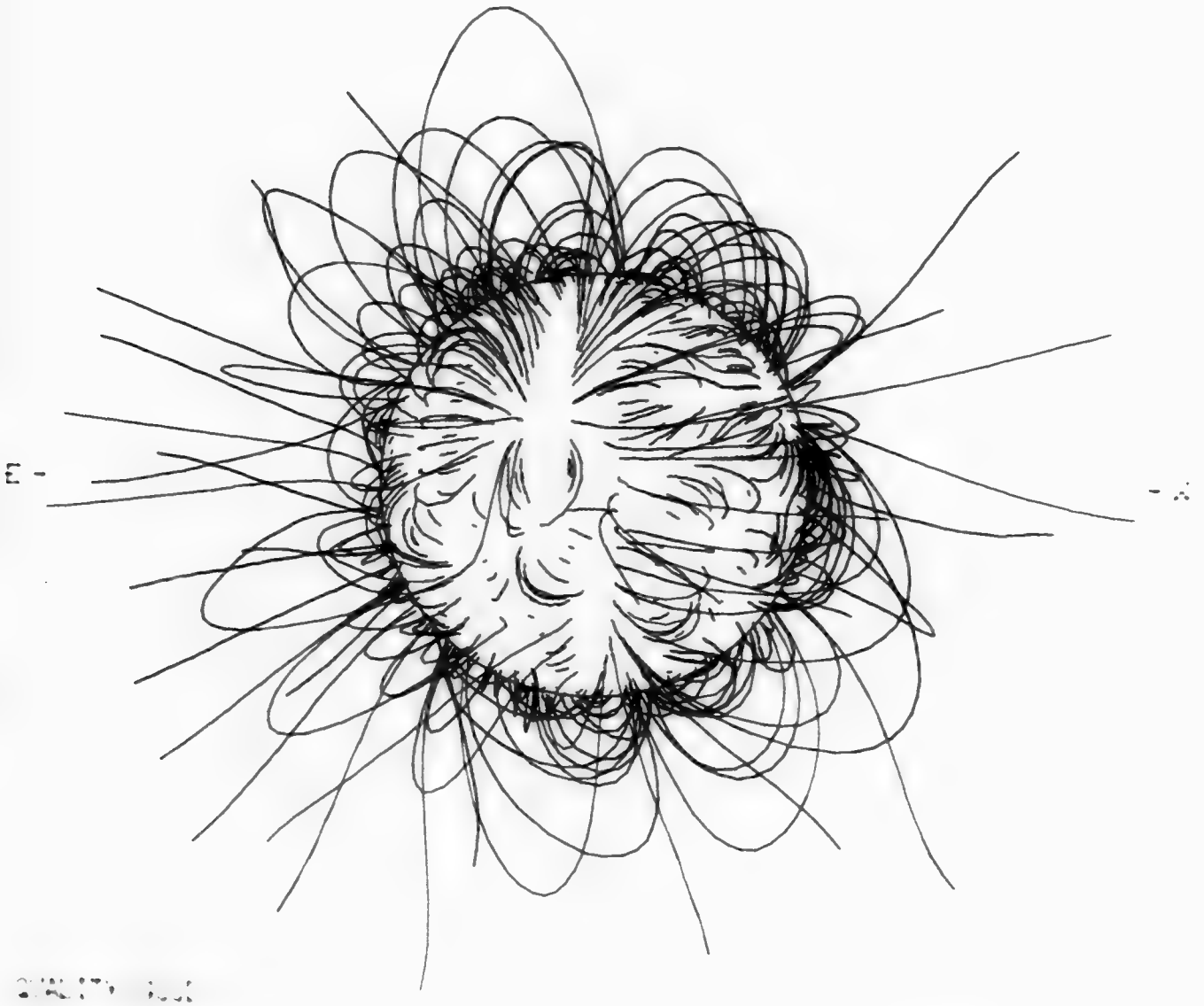
QUALITY GOOD

POLES DIRECT

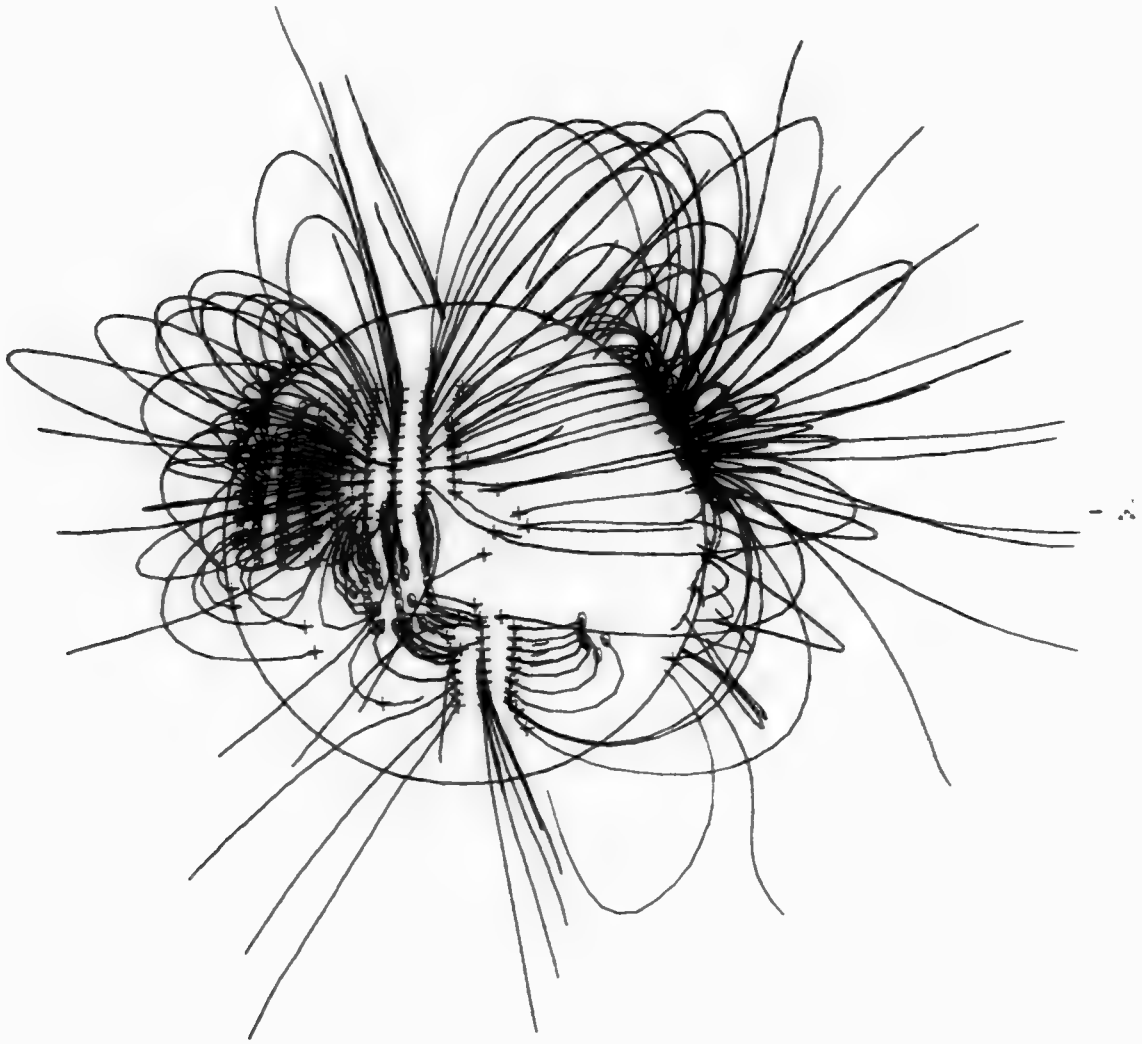
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



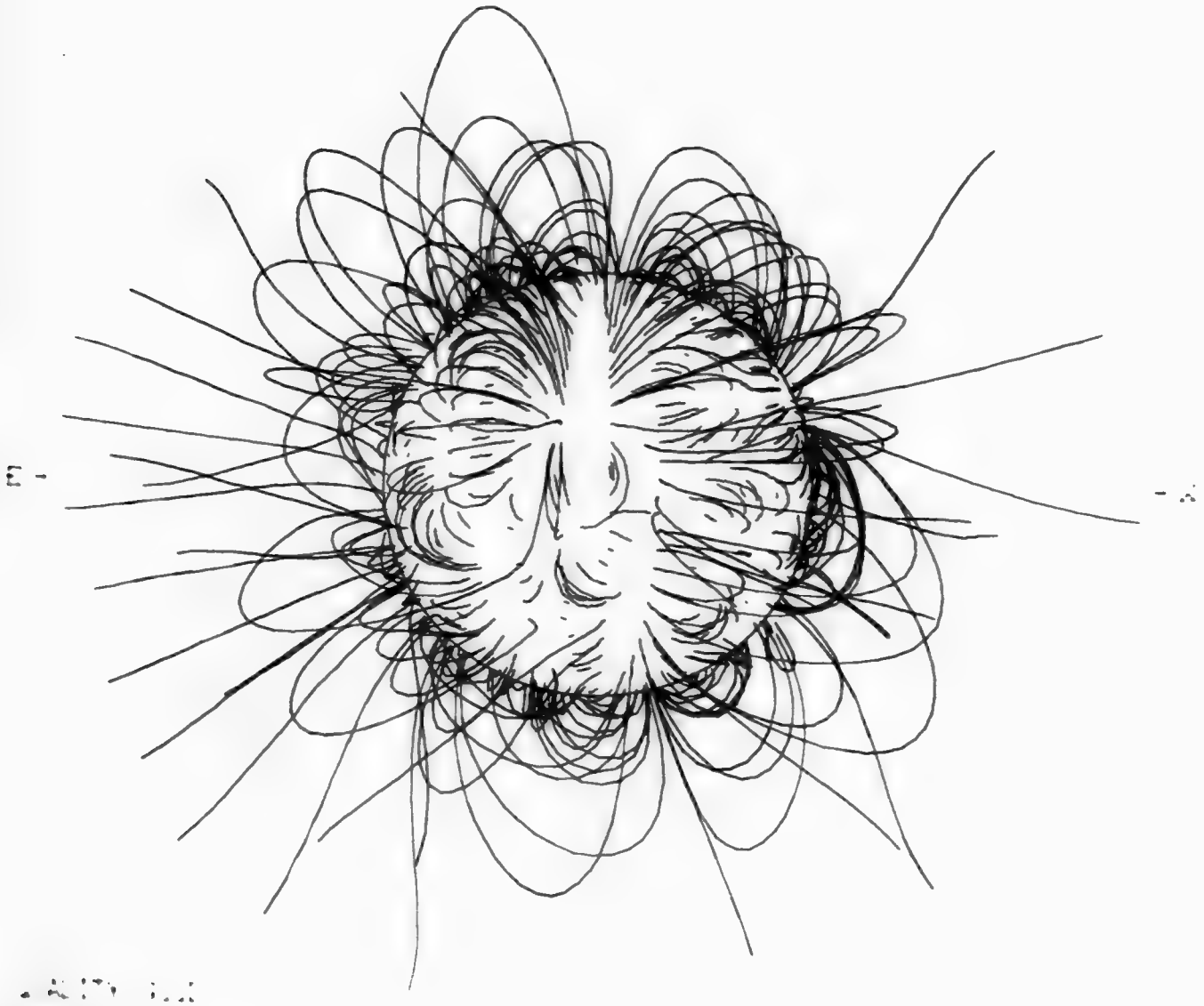
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



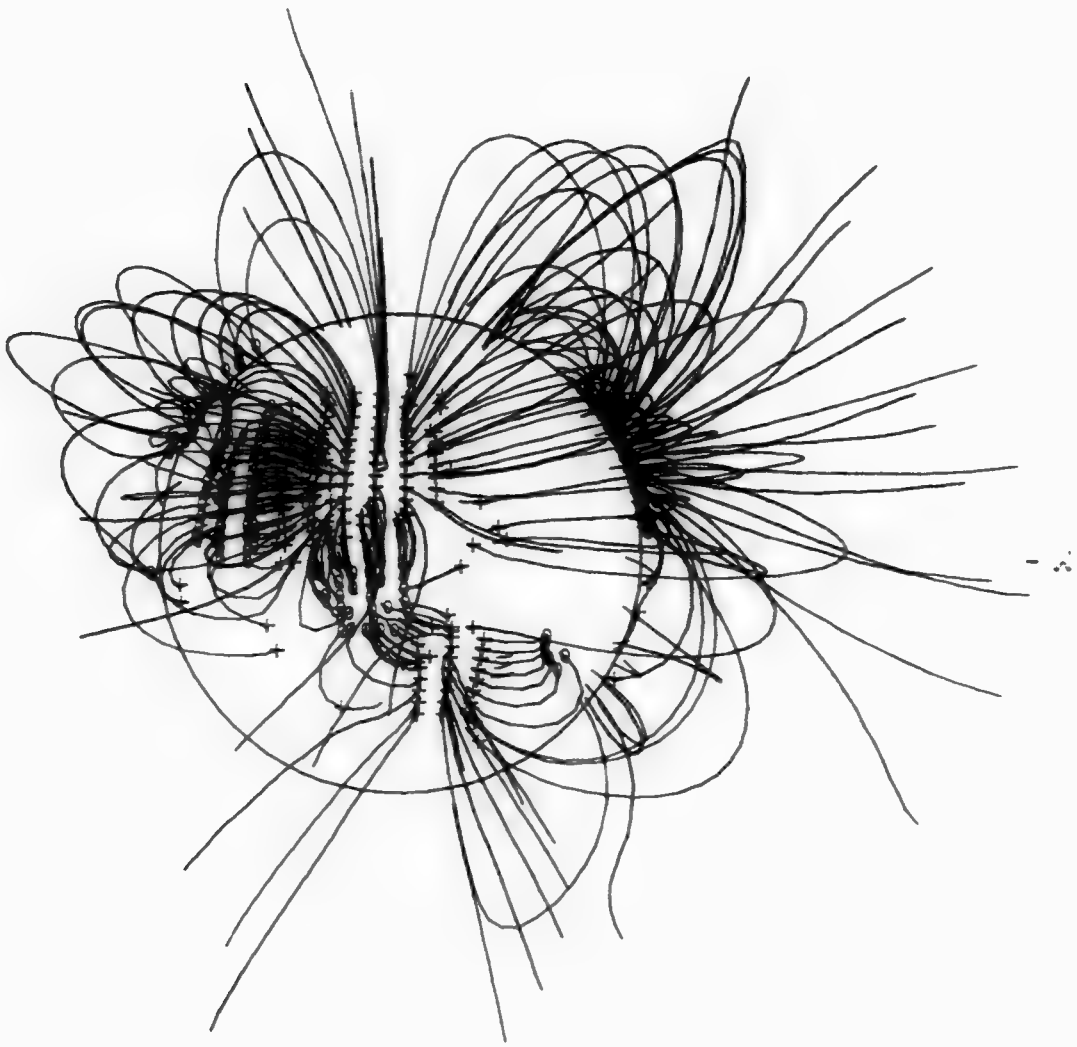
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



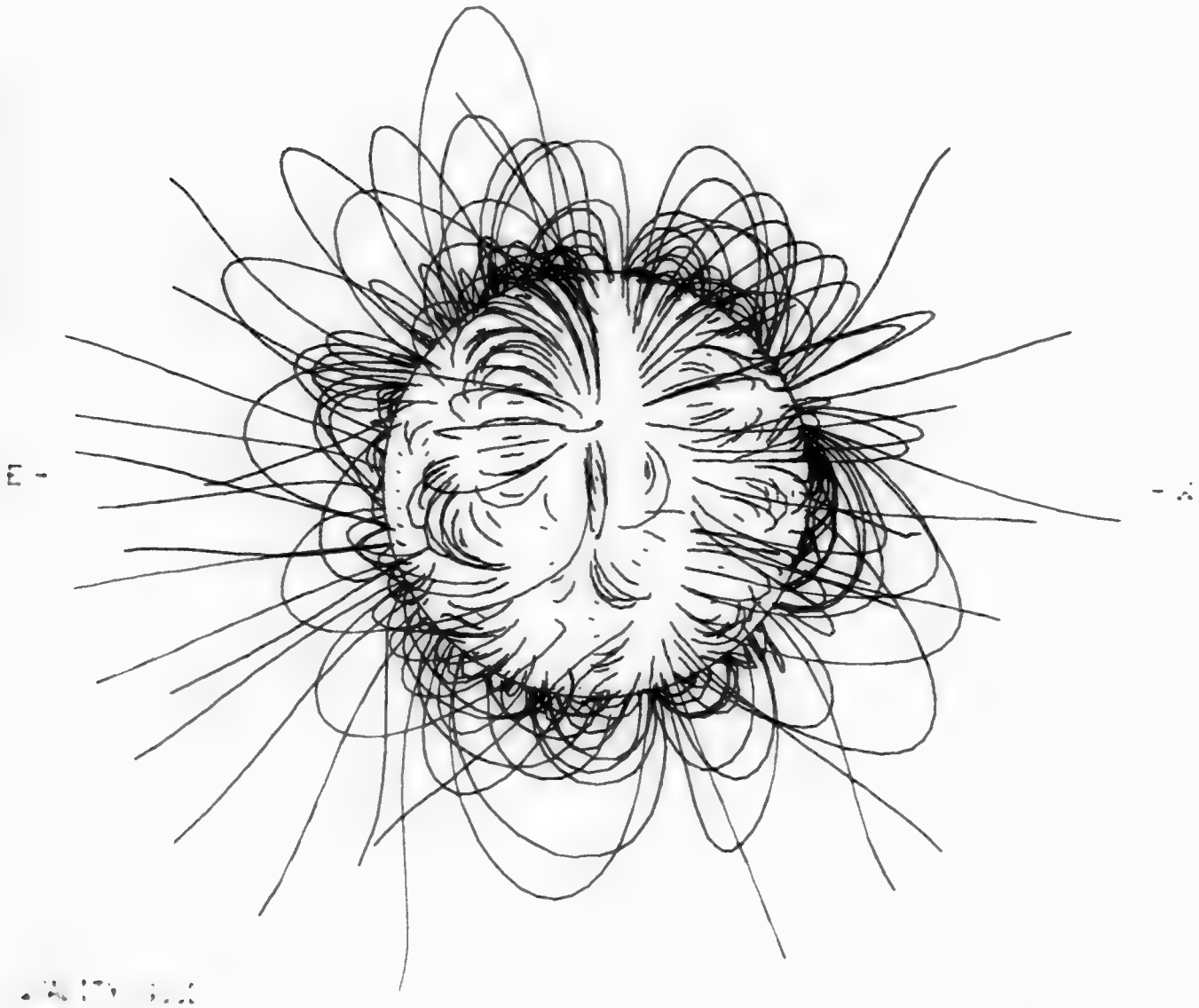
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



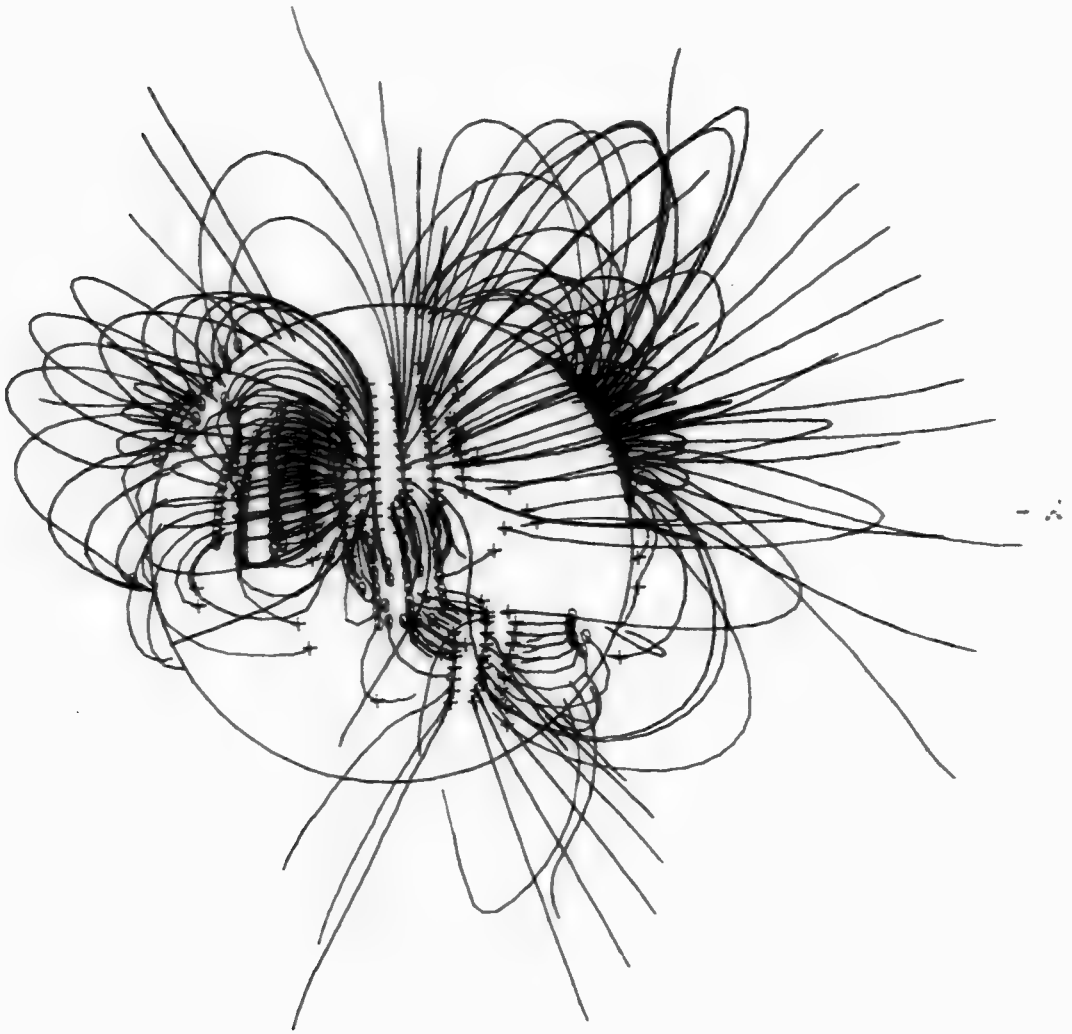
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



E -

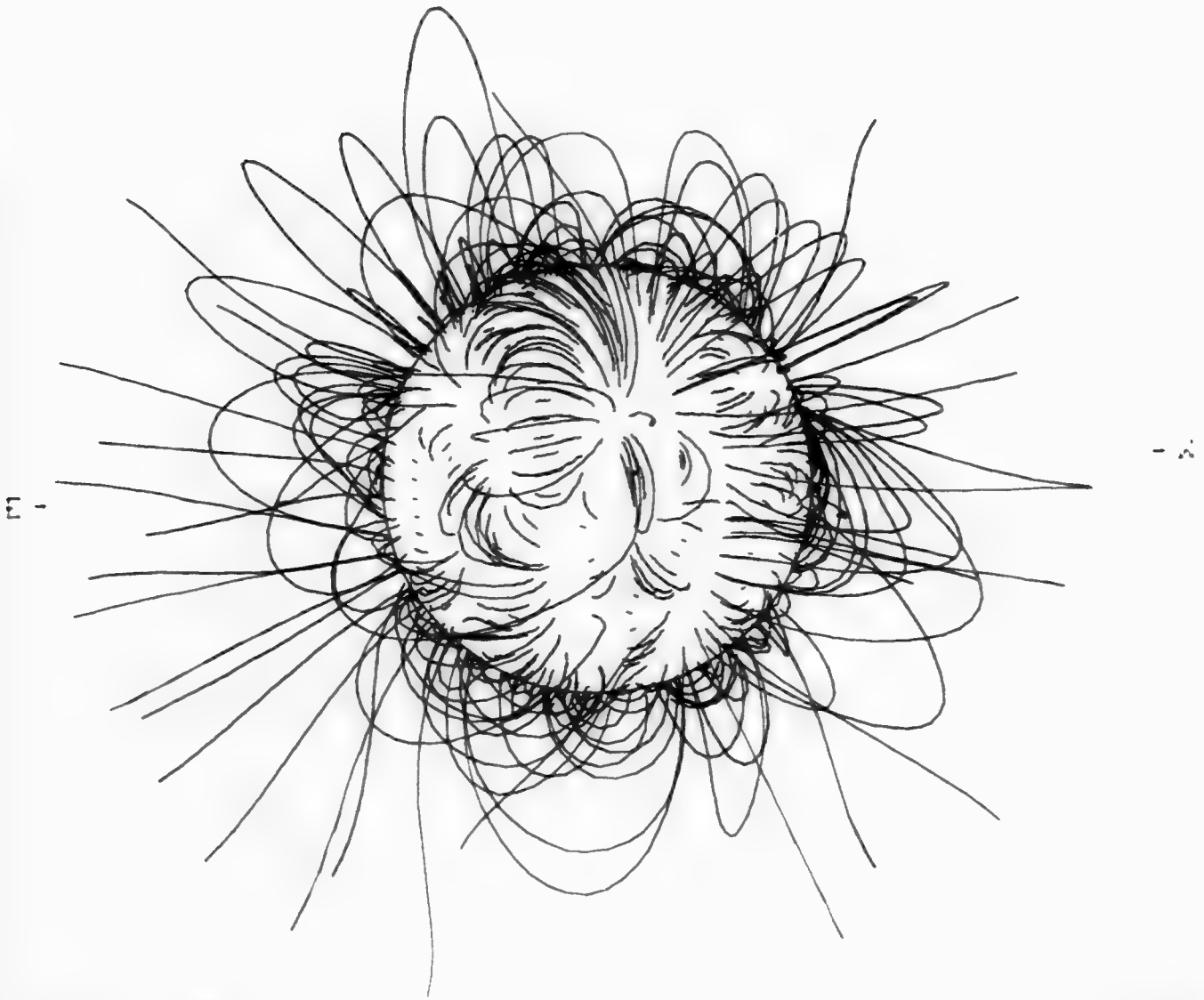
- A

QUALITY GOOD

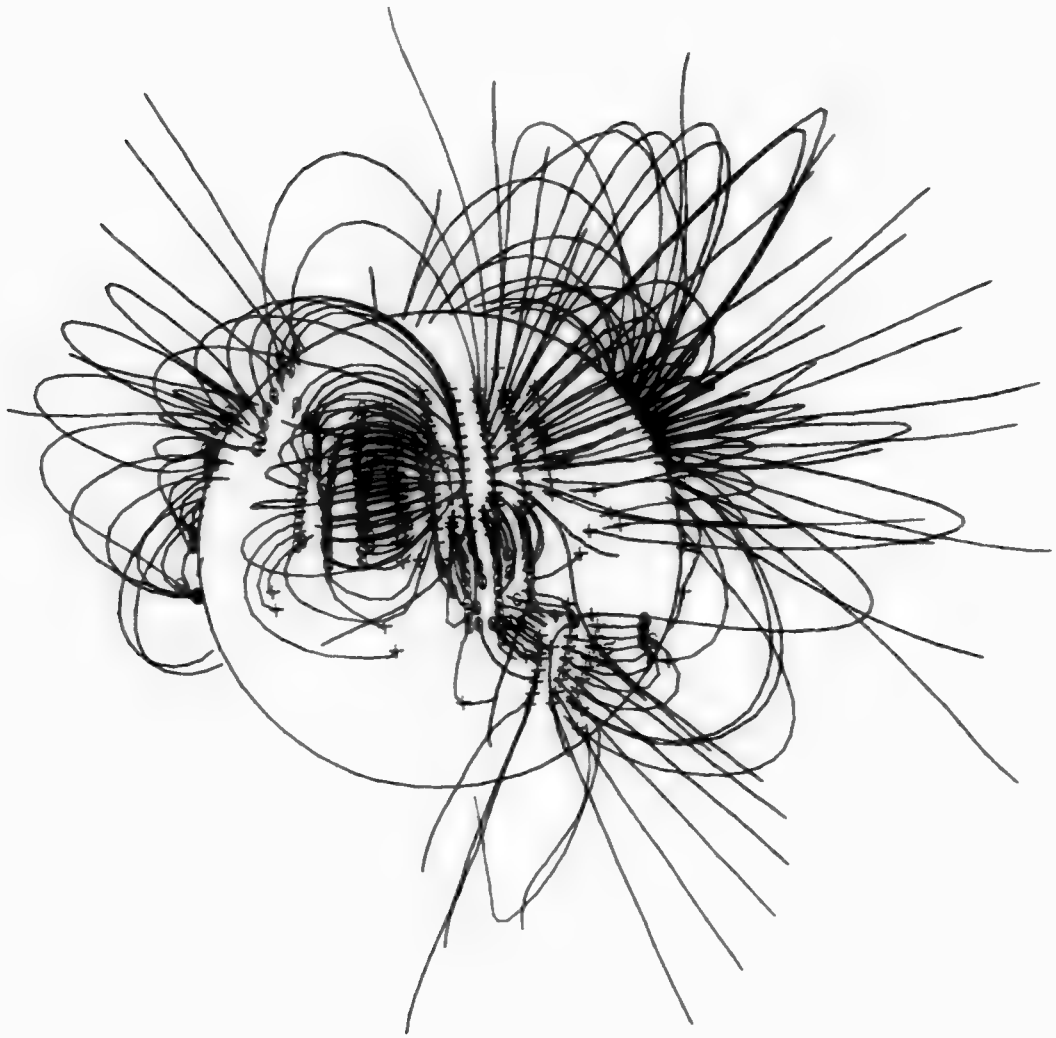
DATA [illegible] 1525.47

S

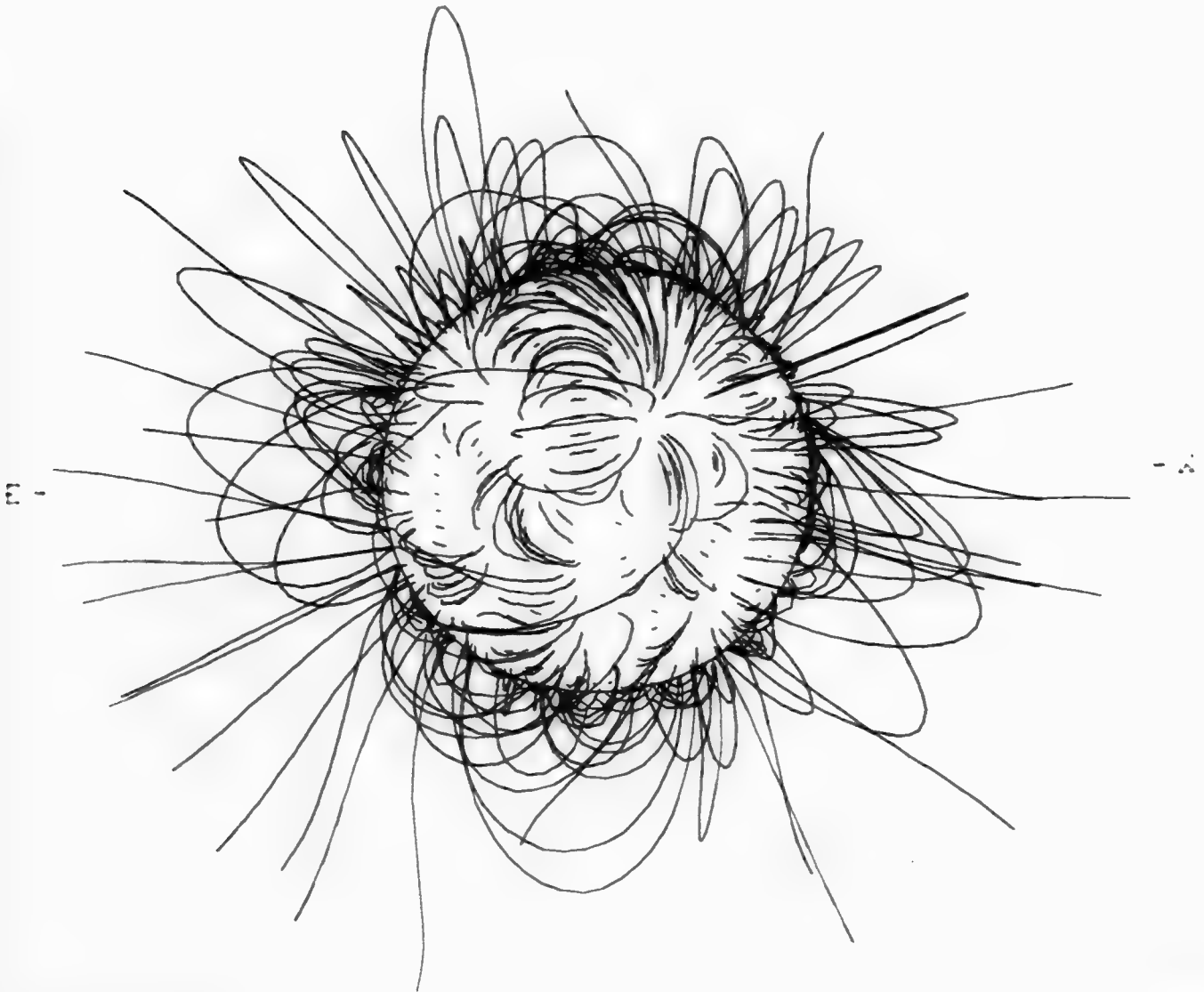
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

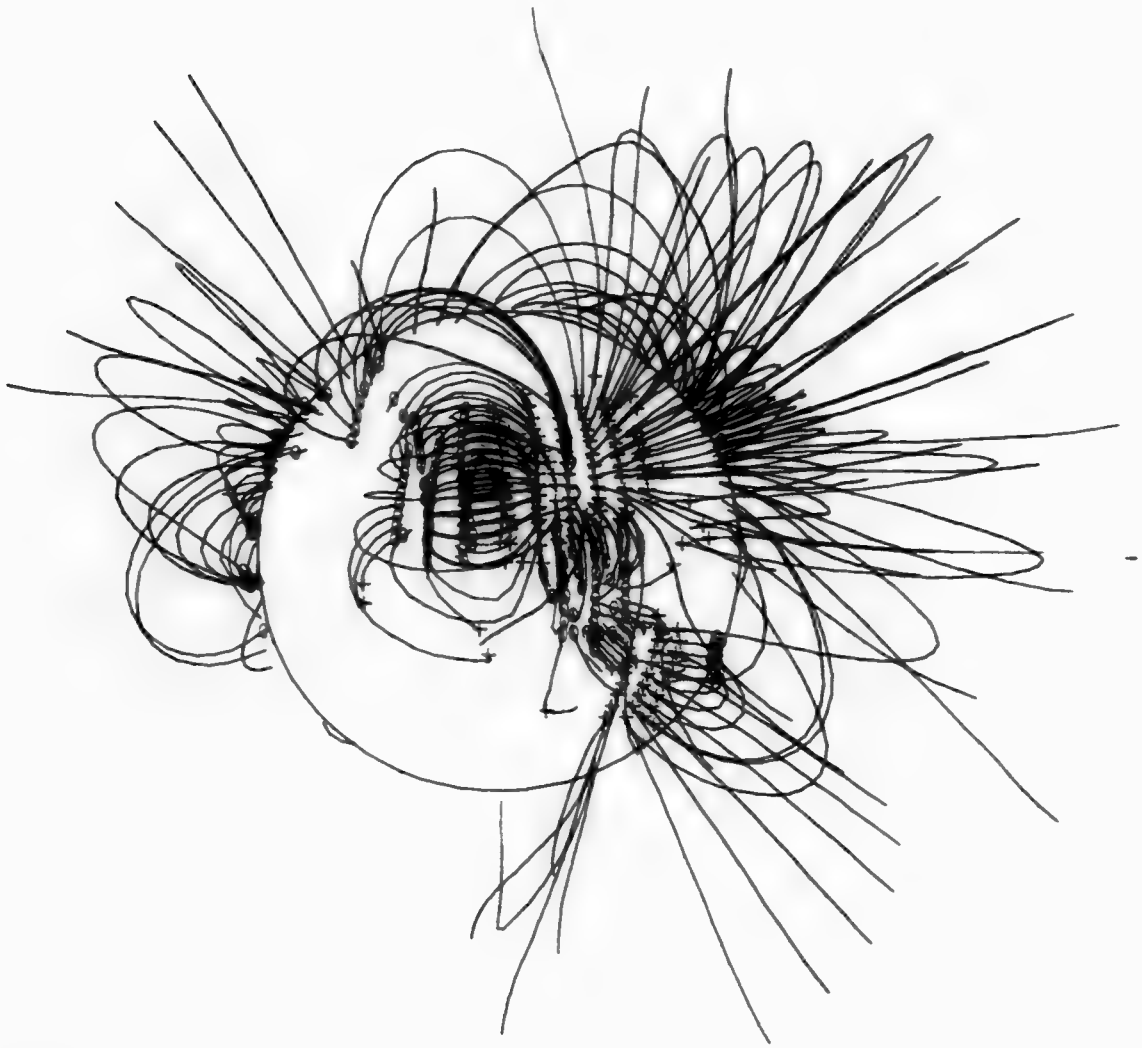


HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

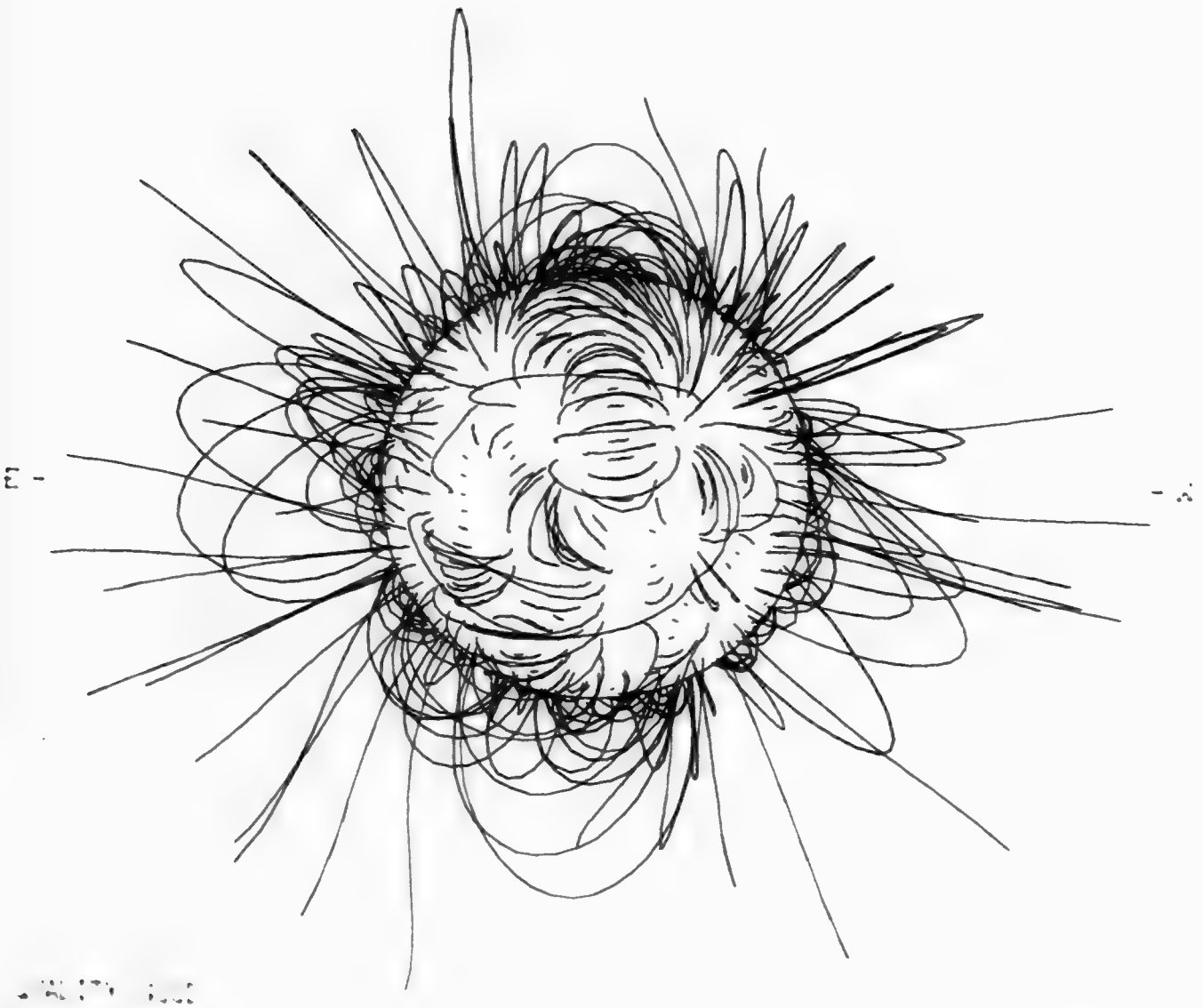


PILES DIRECT

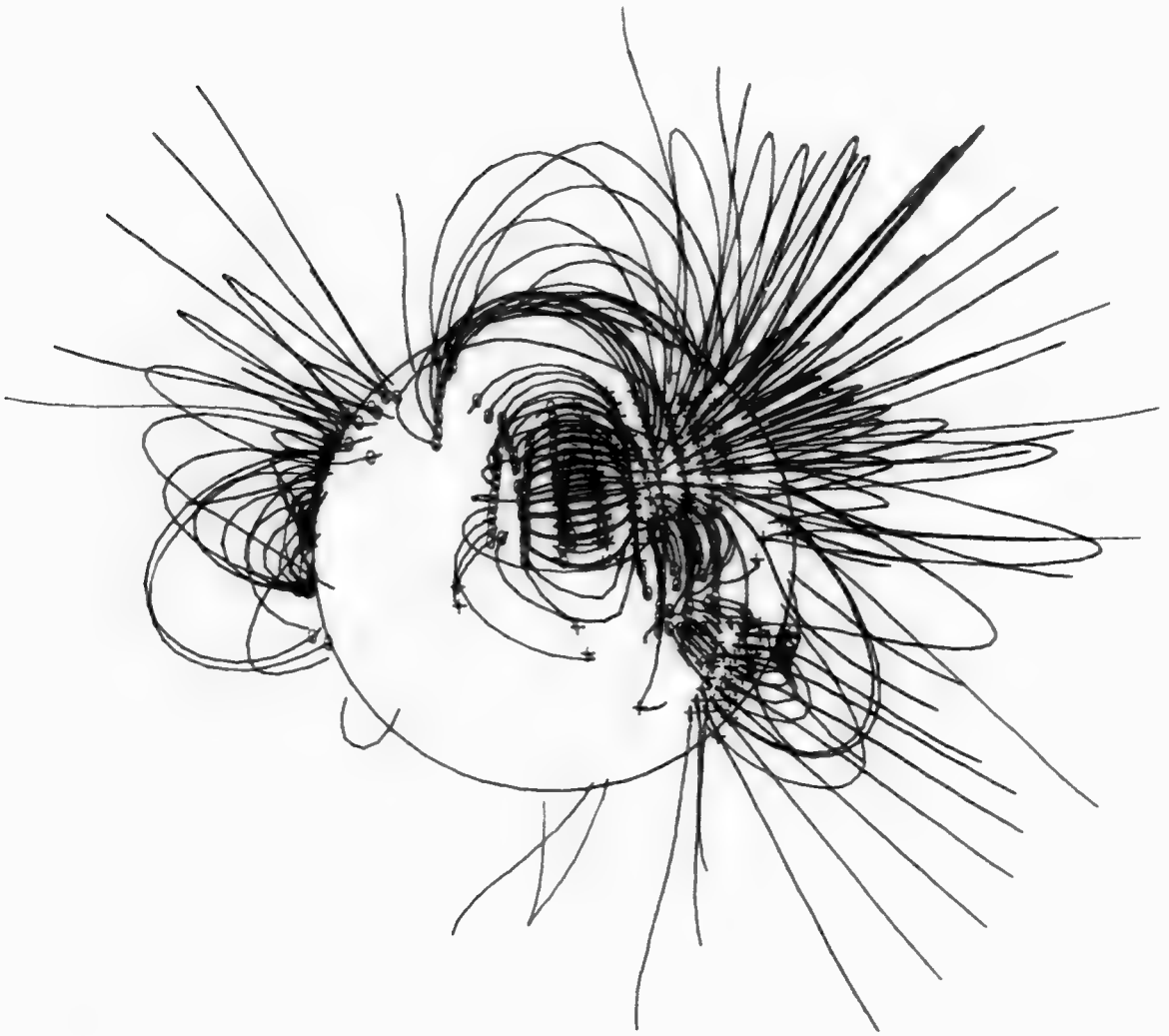
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

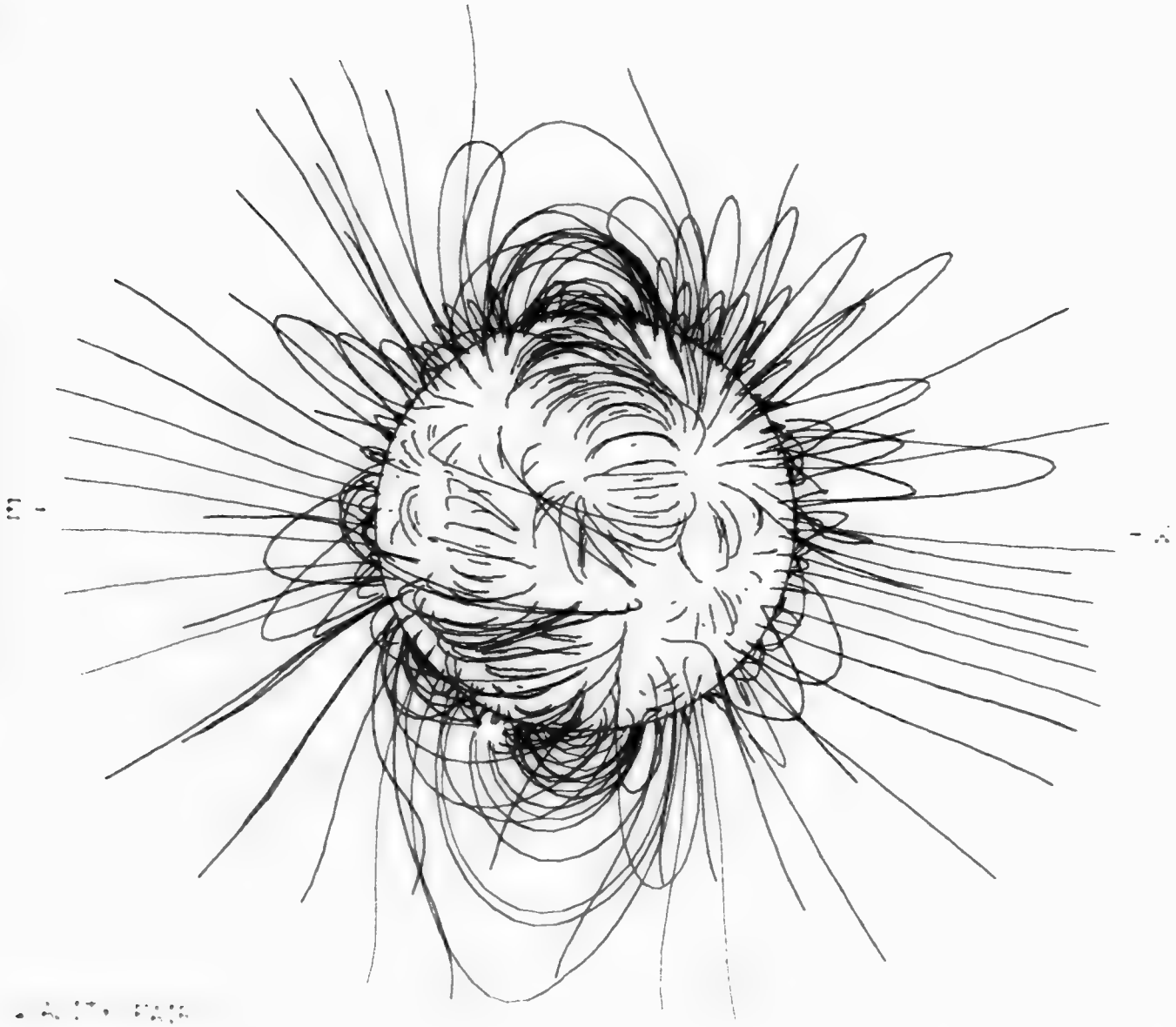


HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

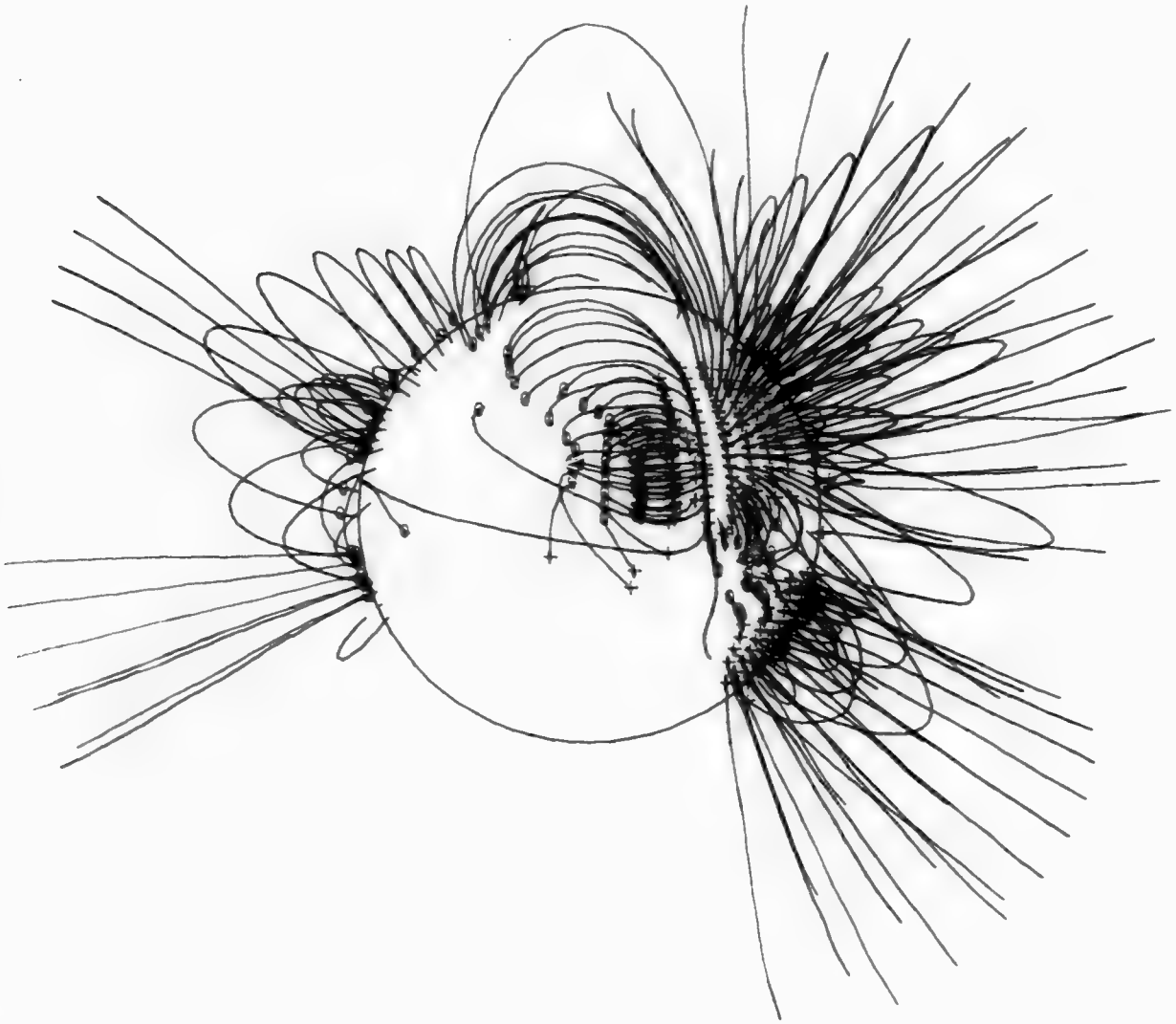


[illegible]

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

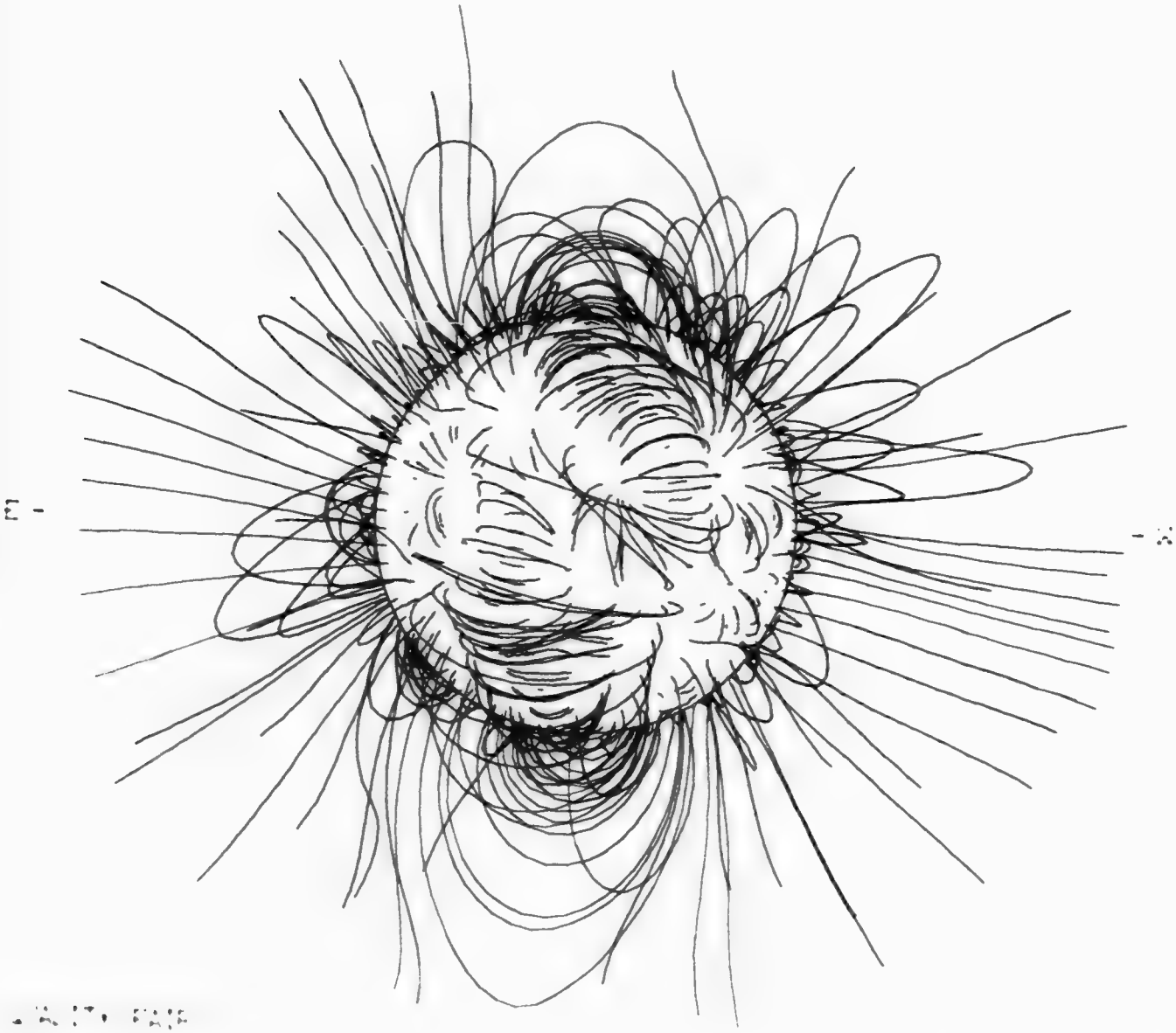


HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

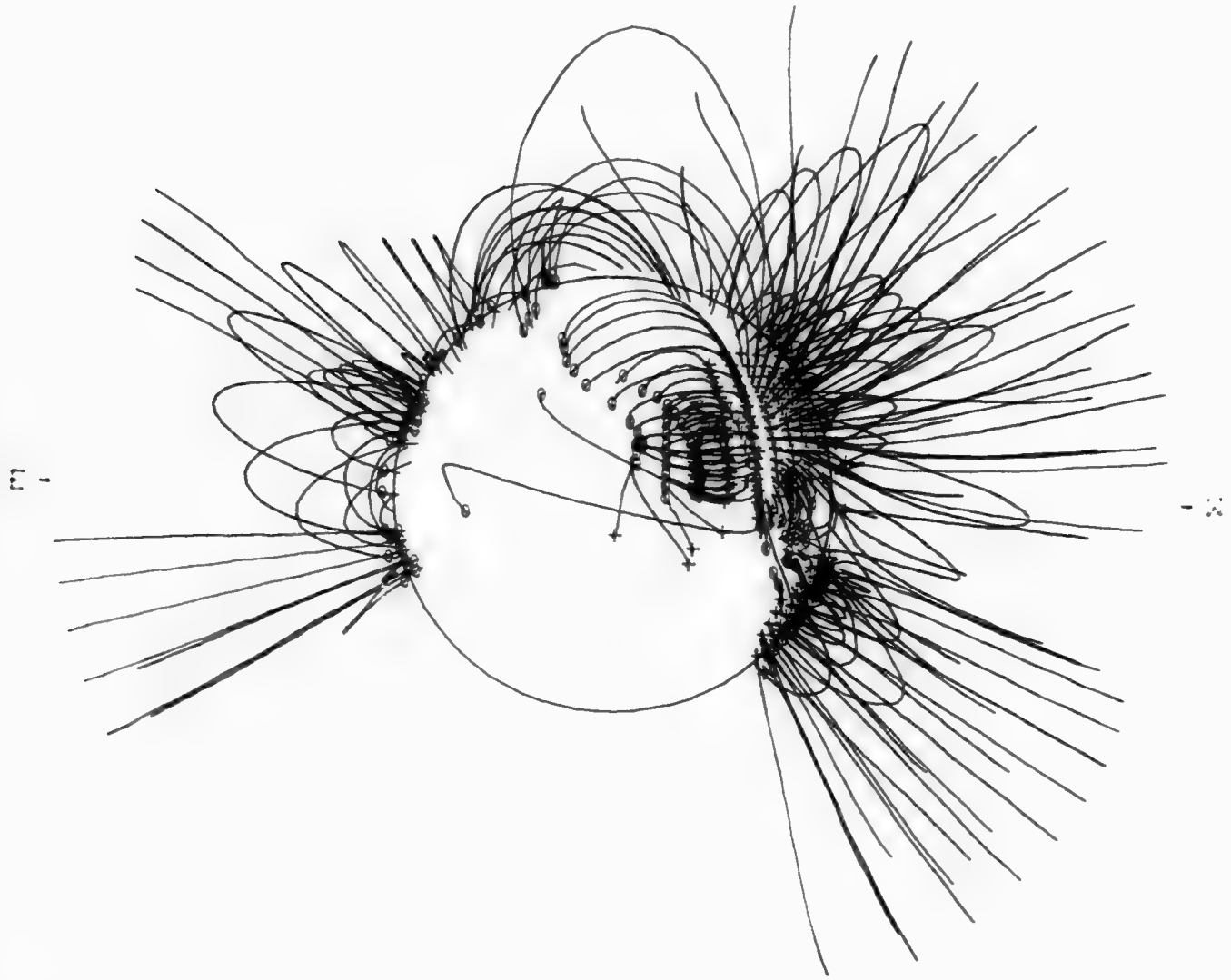


[illegible]

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



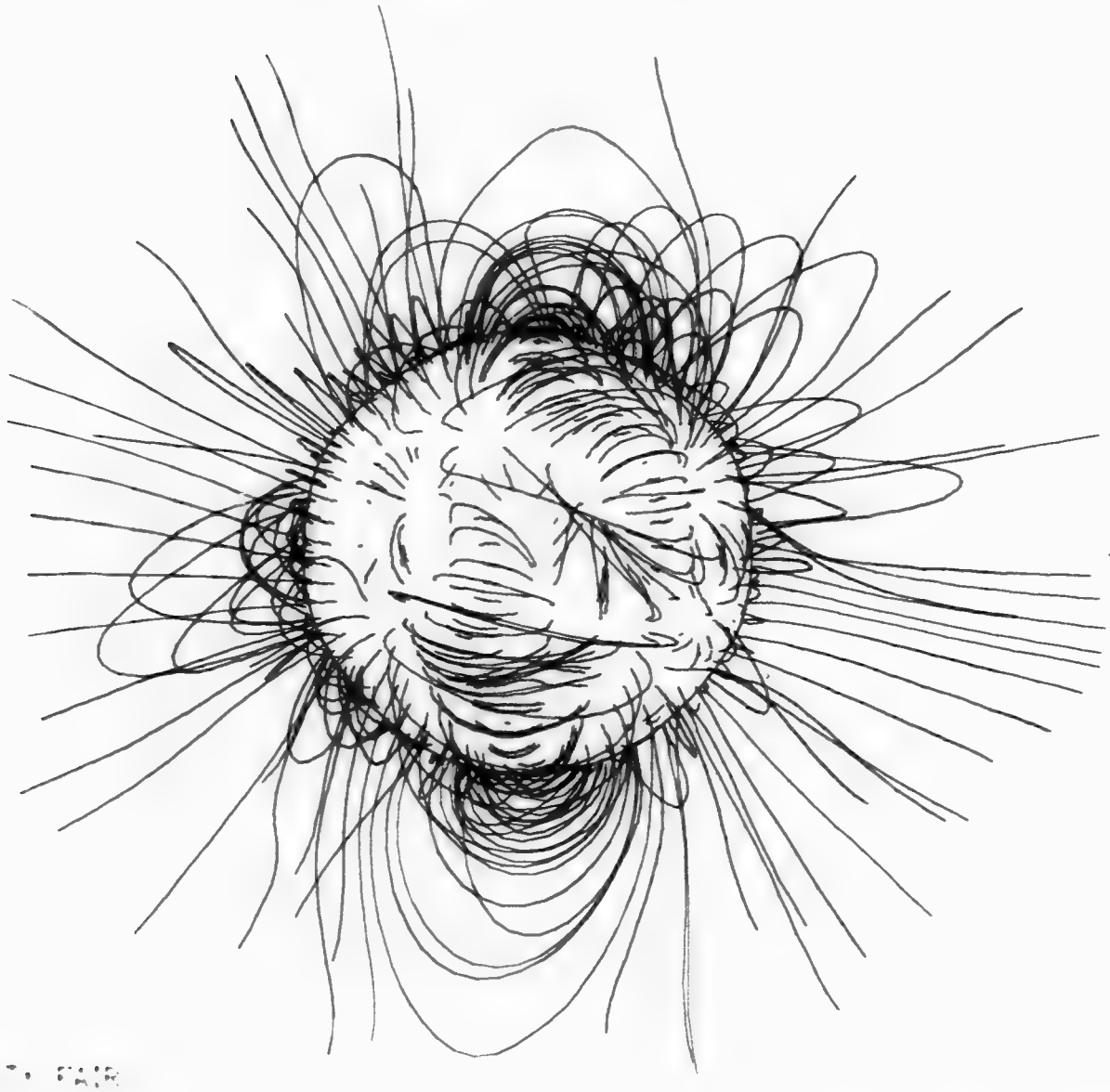
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



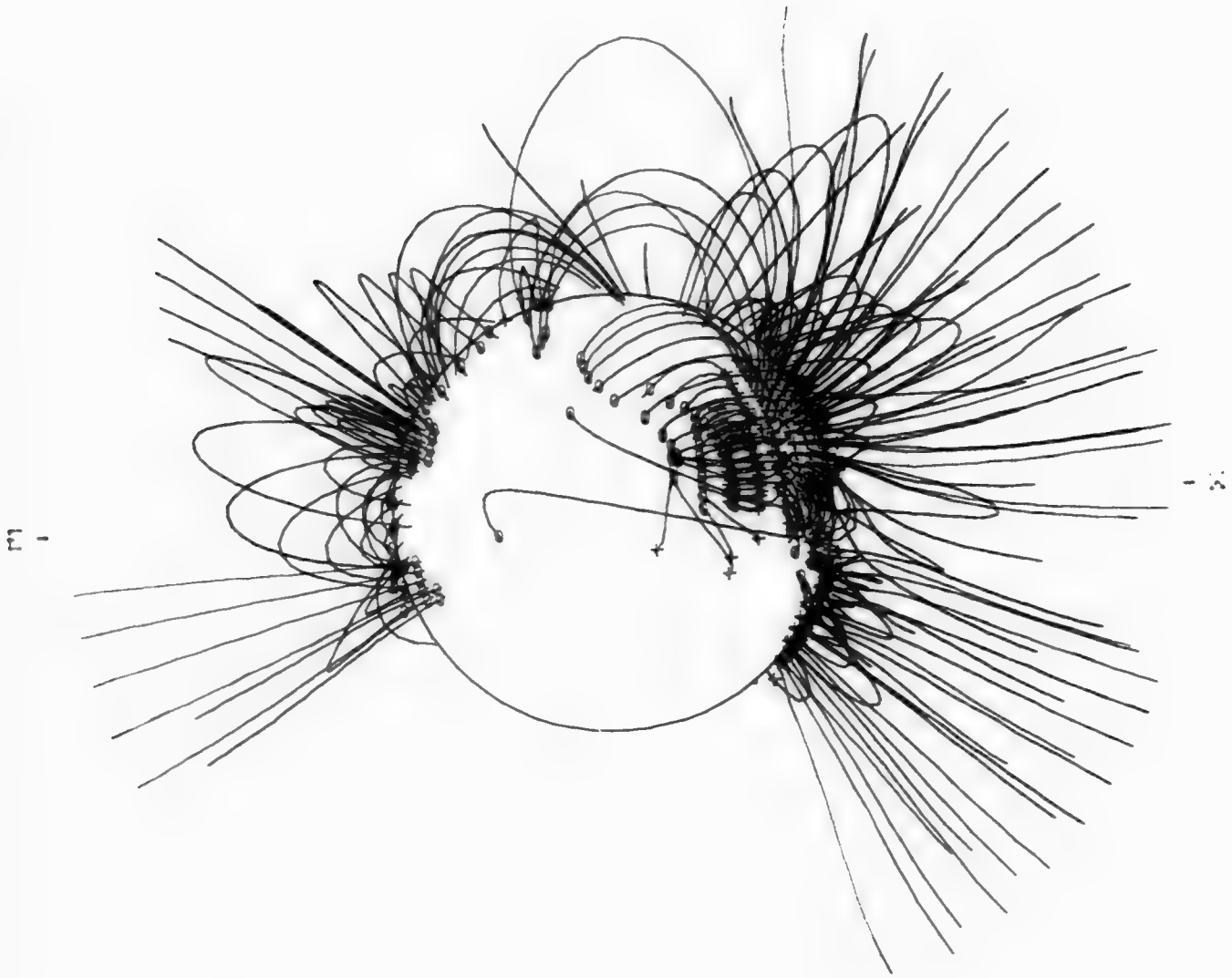
QUALITY FAIR

POLES DIRECT

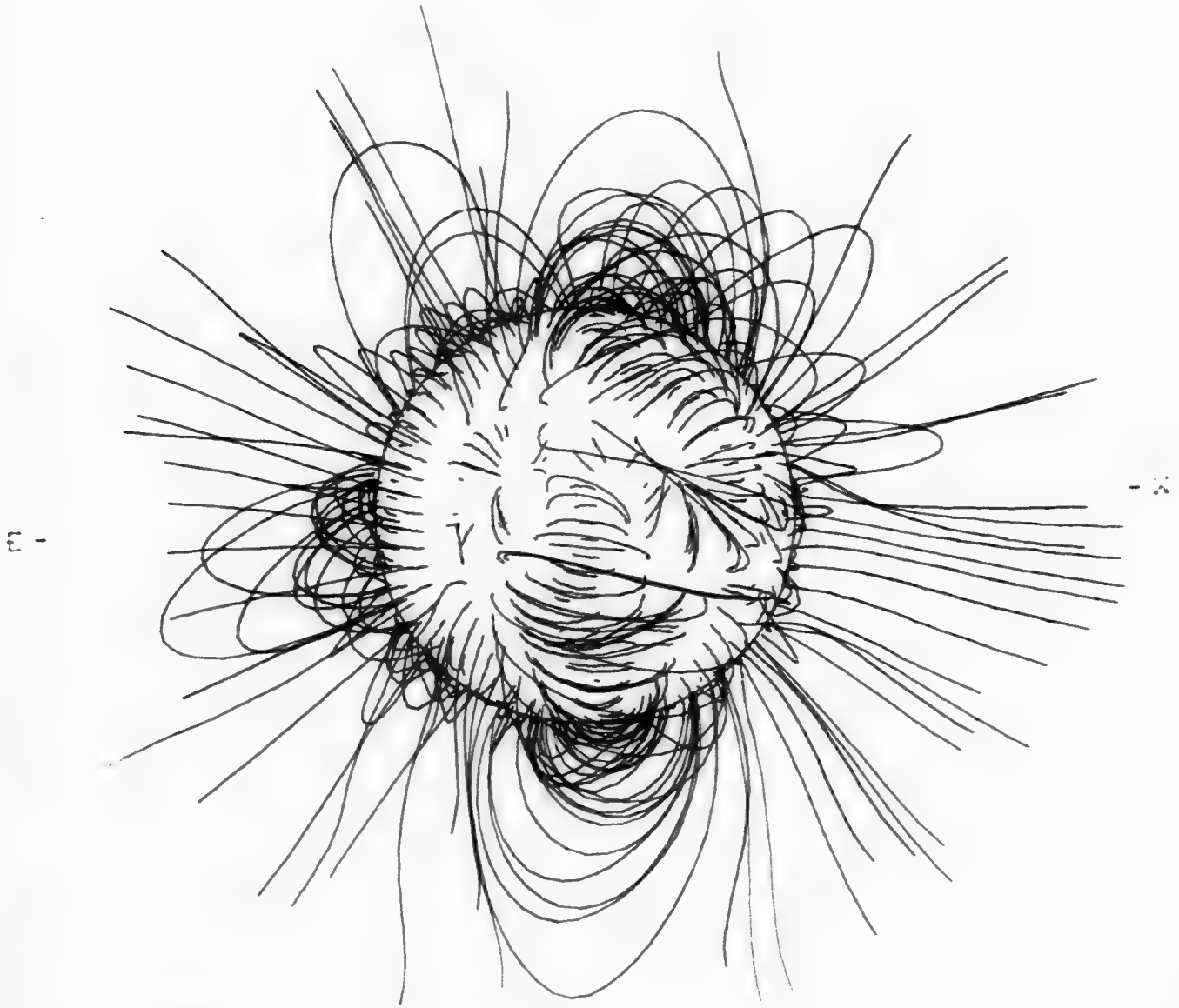
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



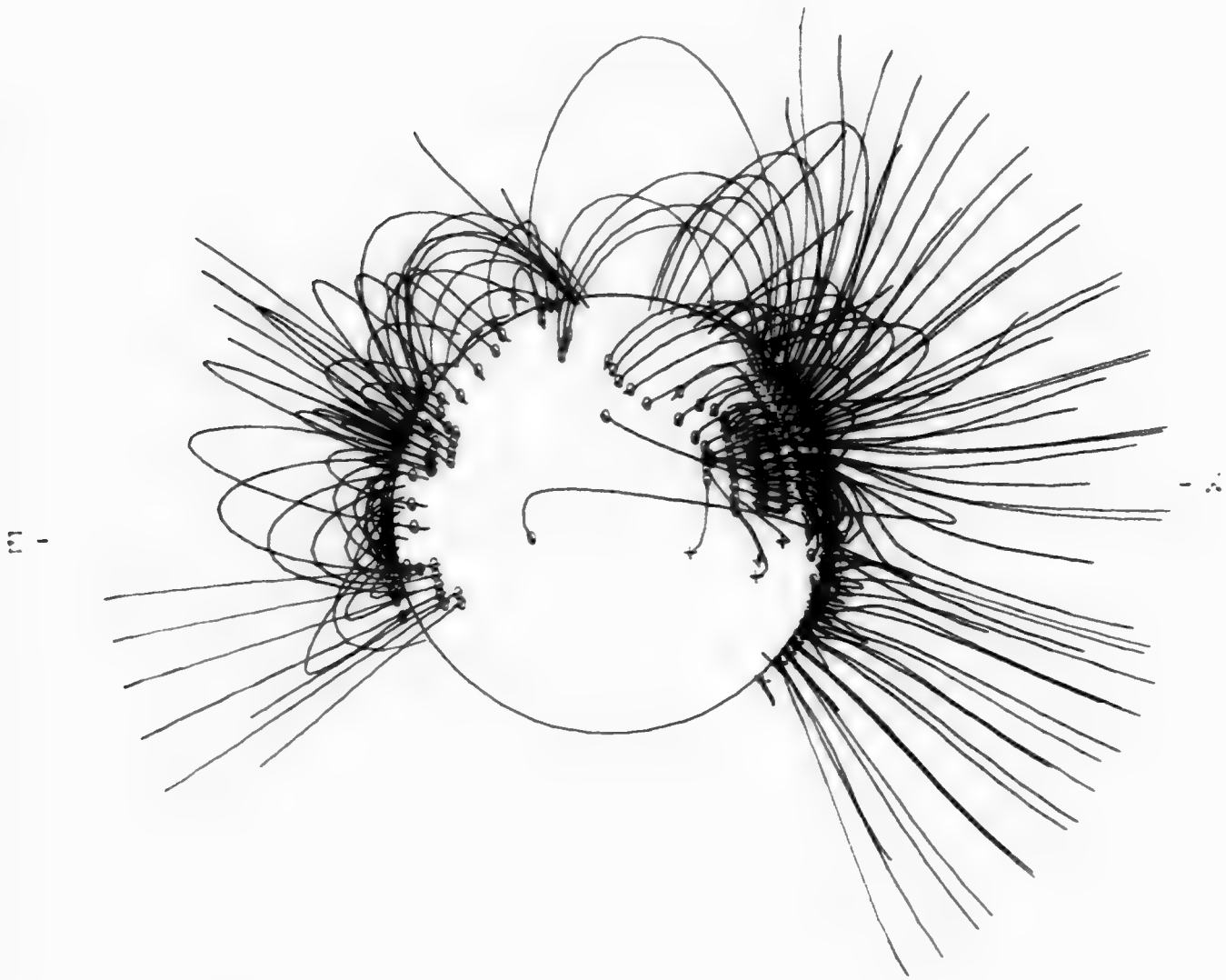
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



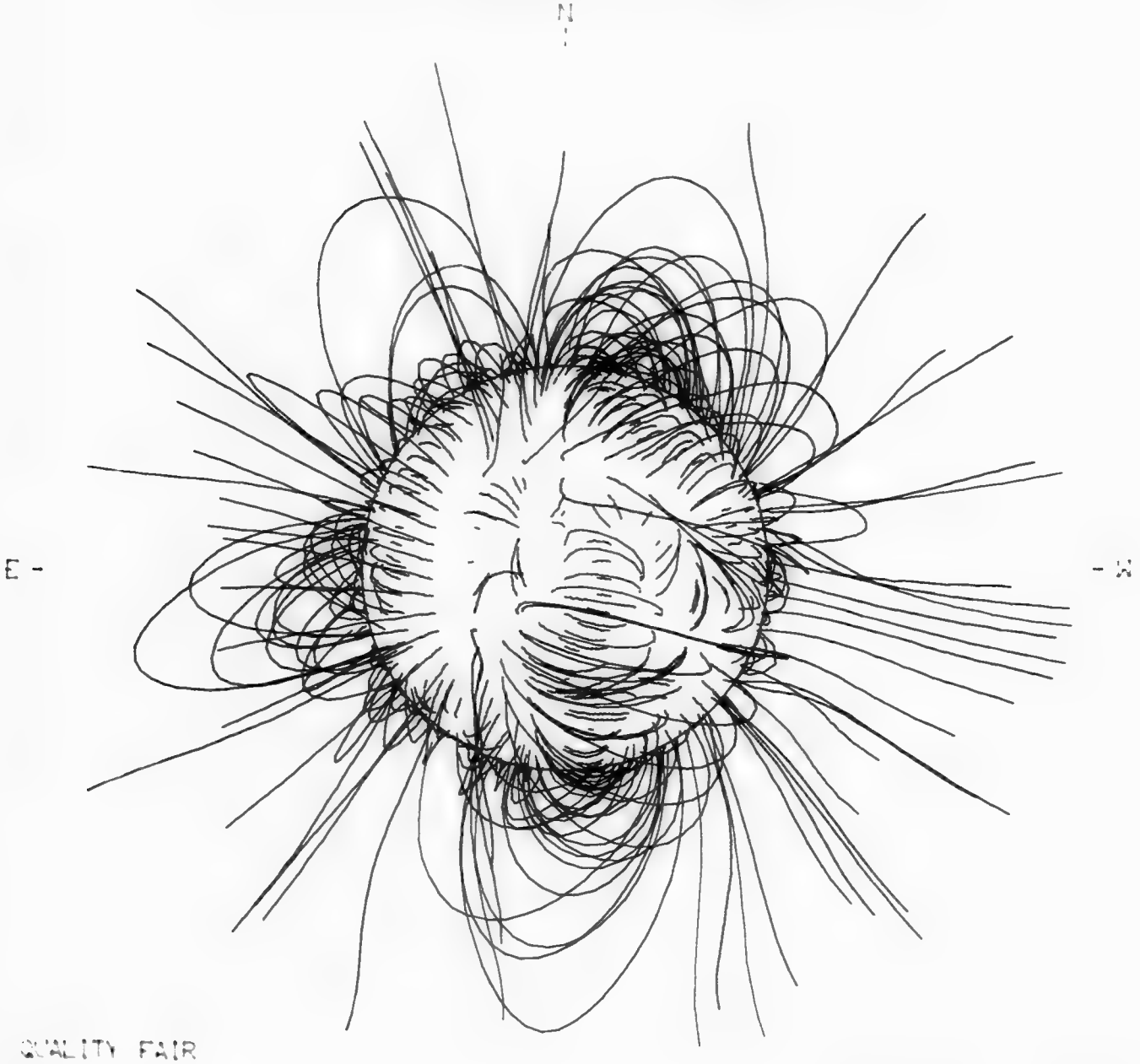
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



QUALITY FAIR

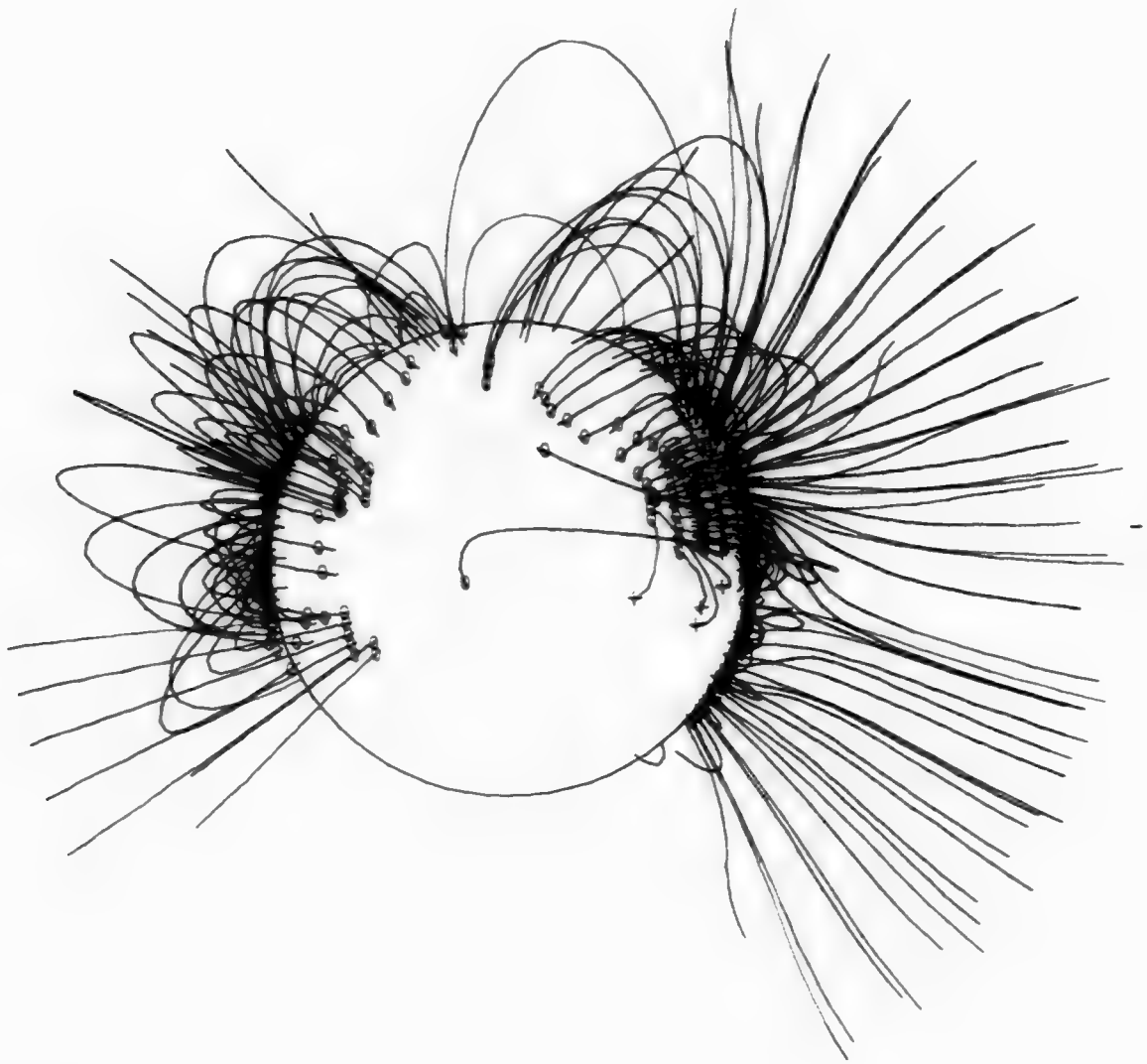
POLES DIRECT

DATA AVAILABLE 1546.00

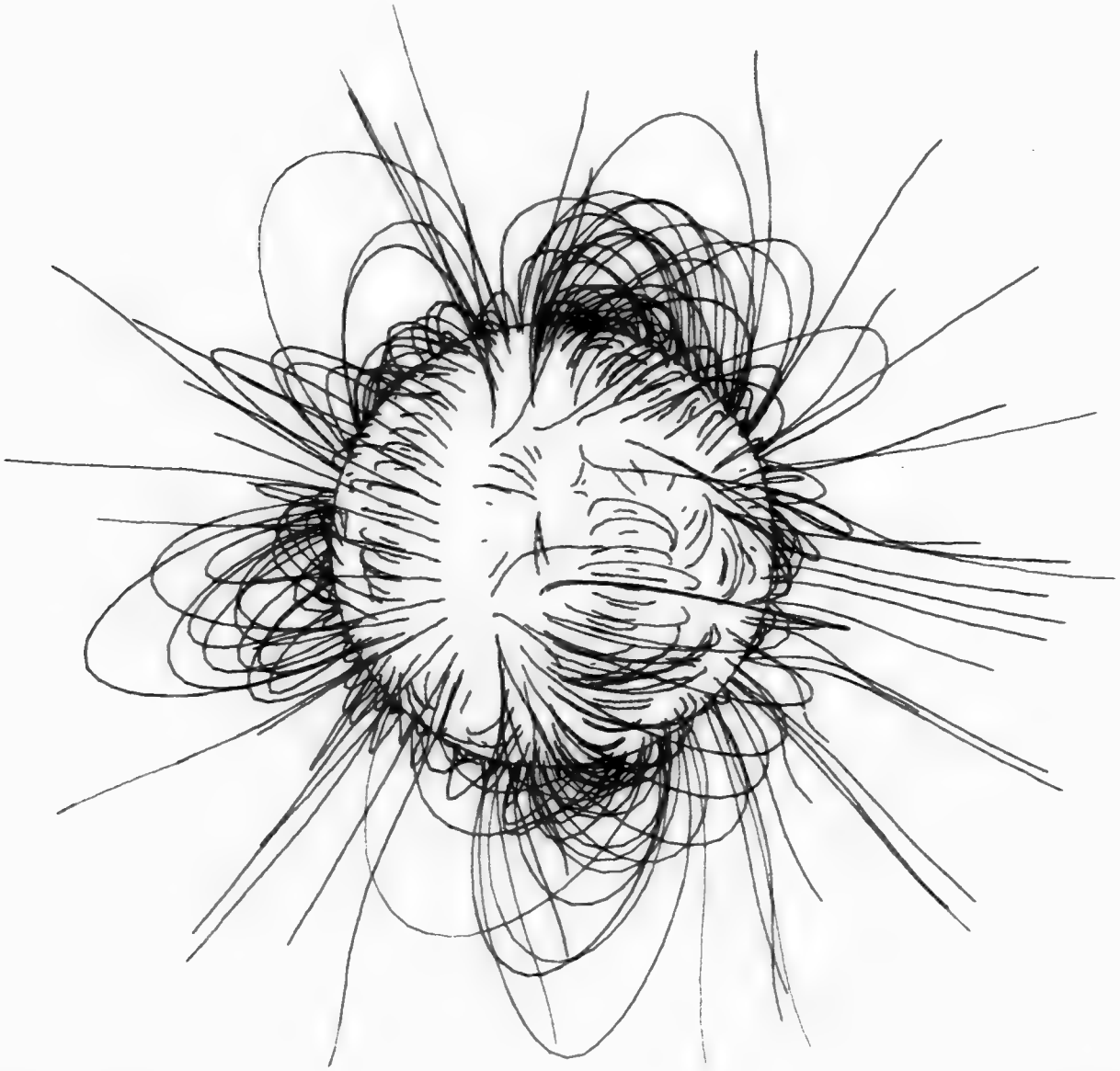
ROT. 1546 LONG. 210°

7.0 APR 1969

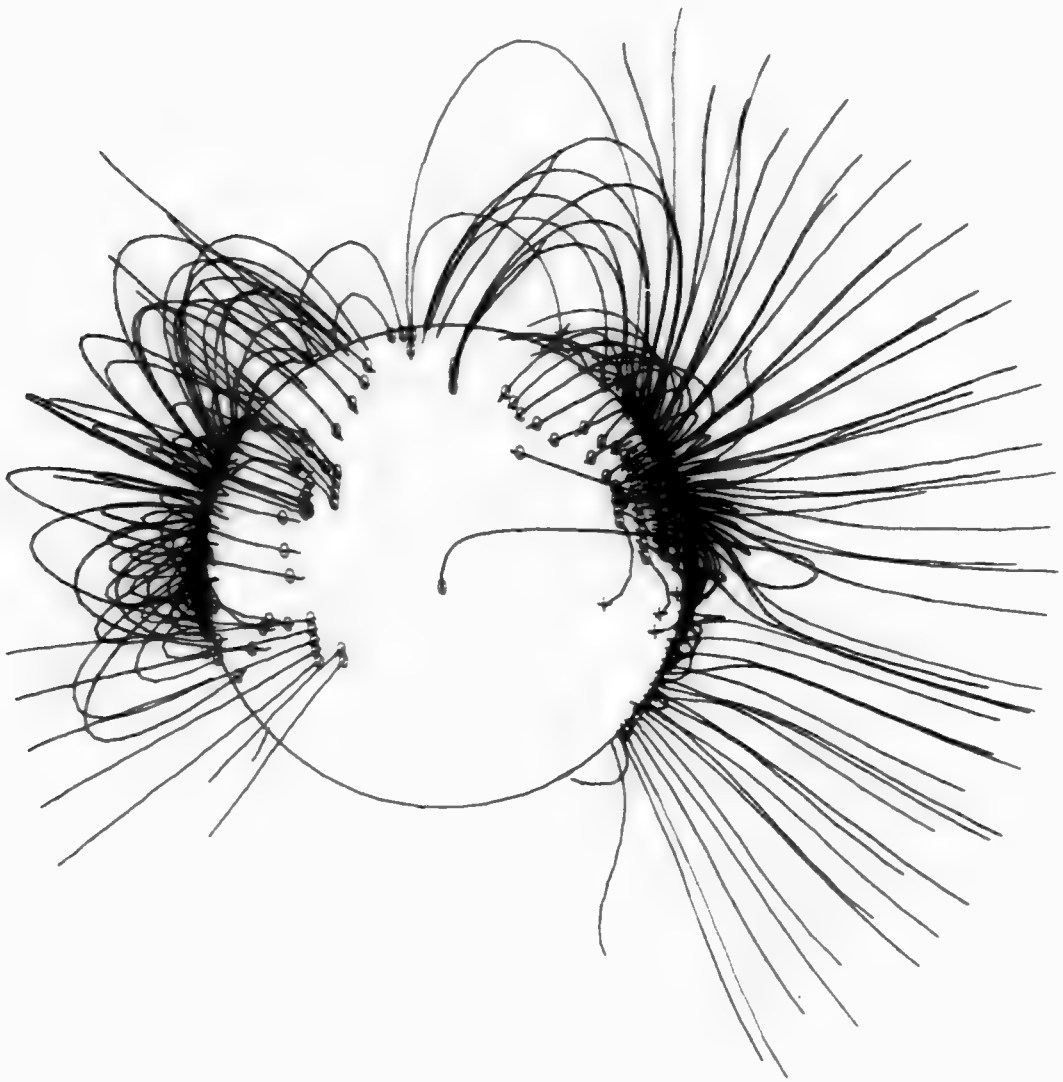
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



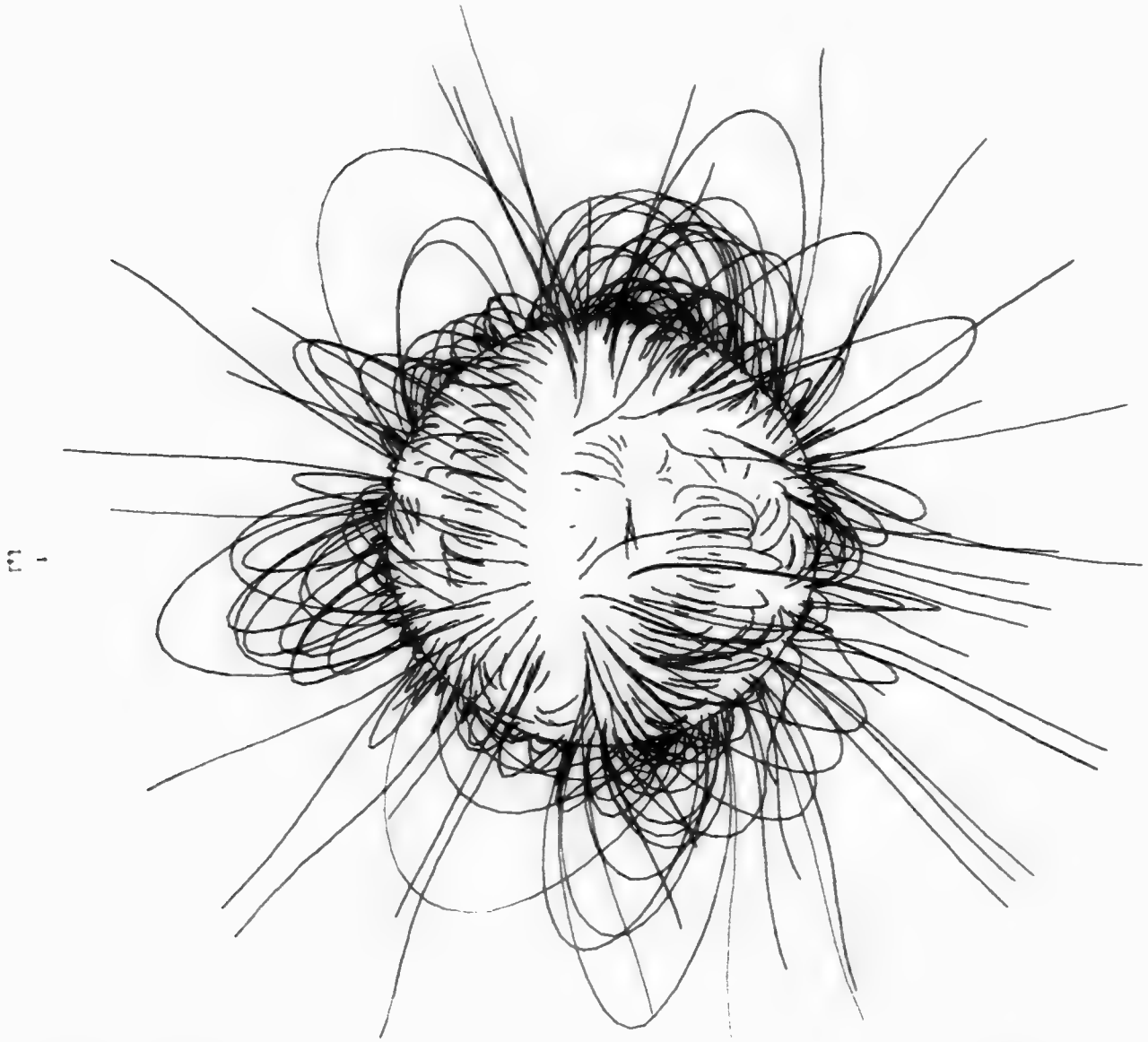
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



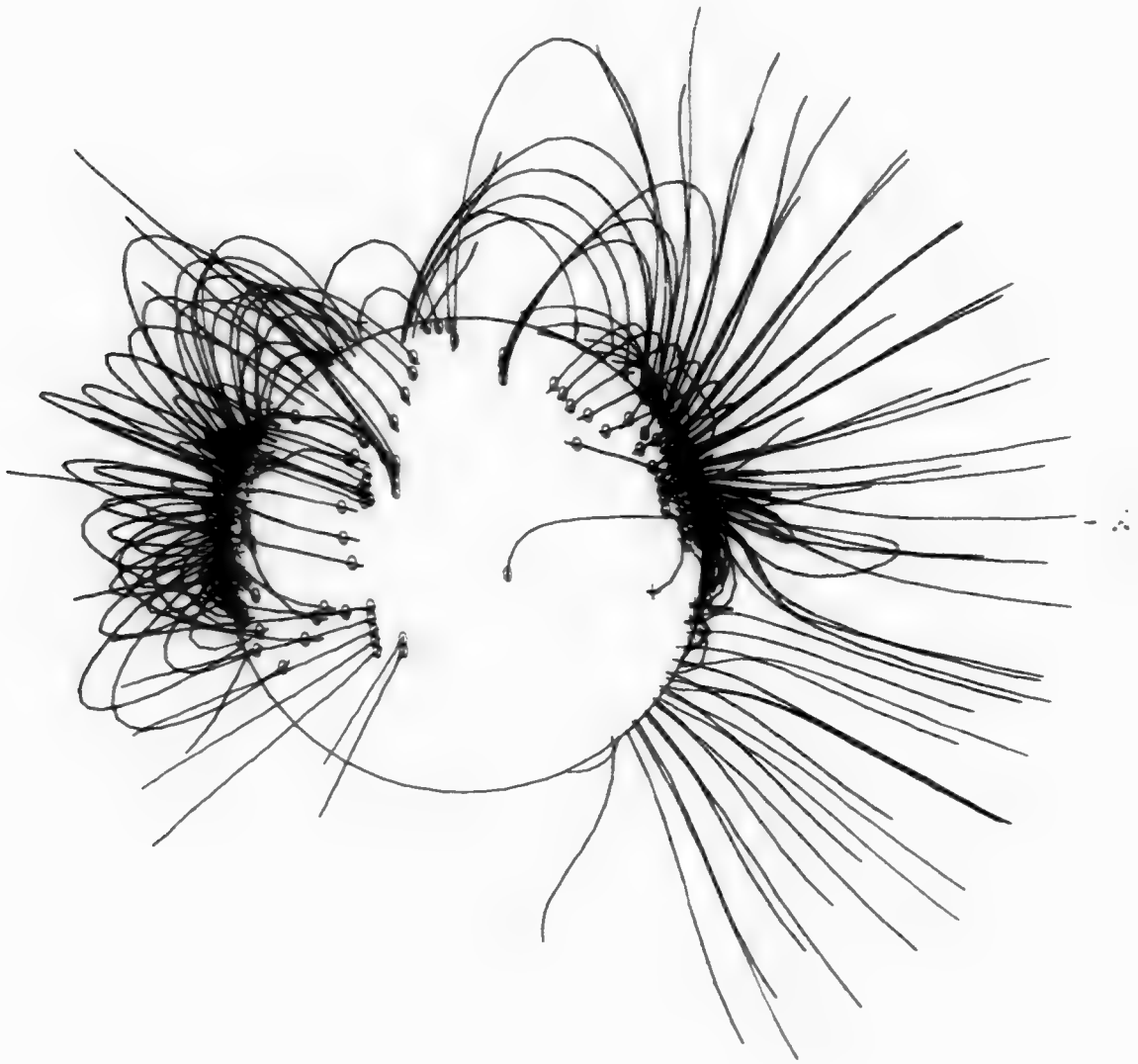
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



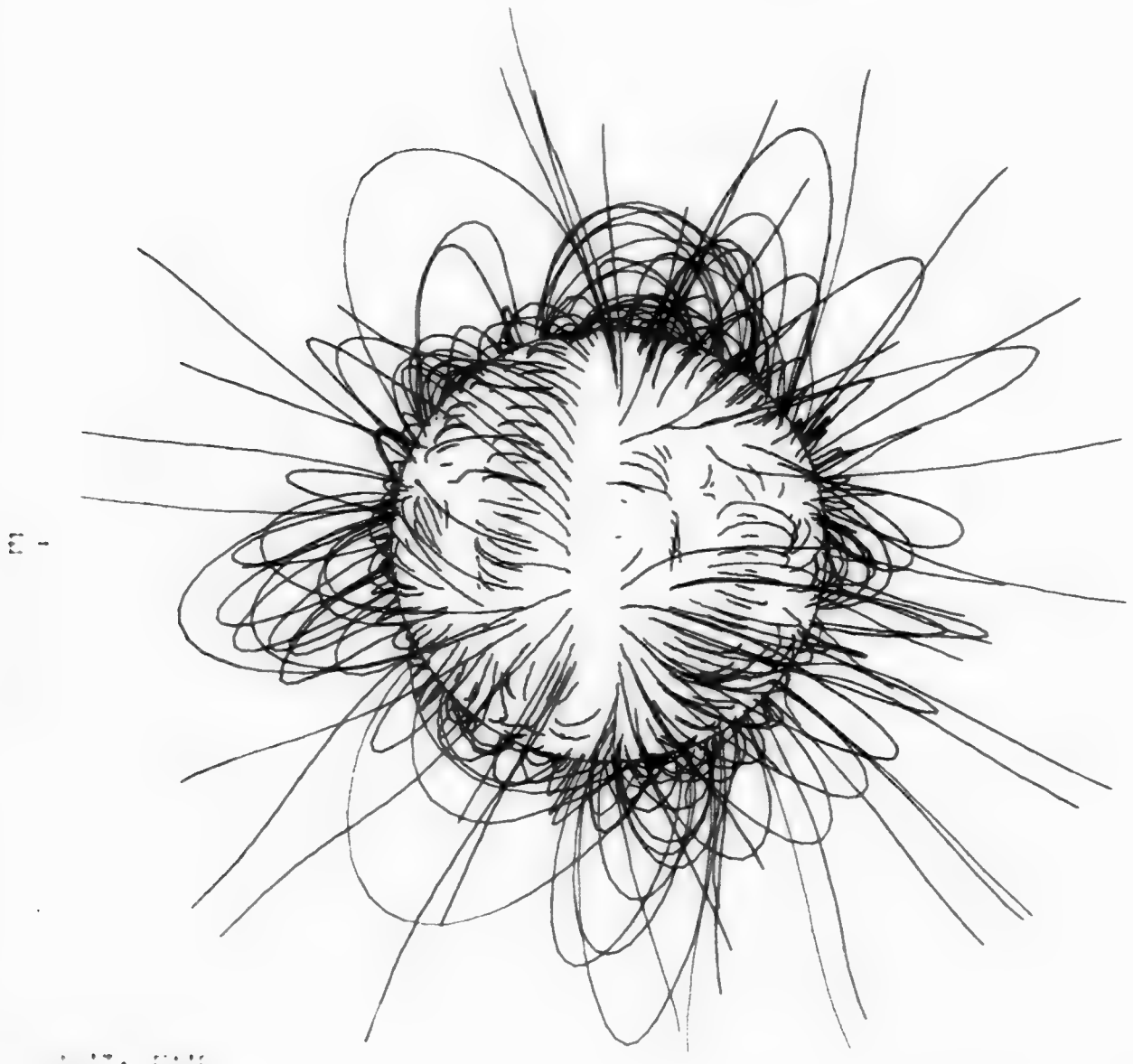
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



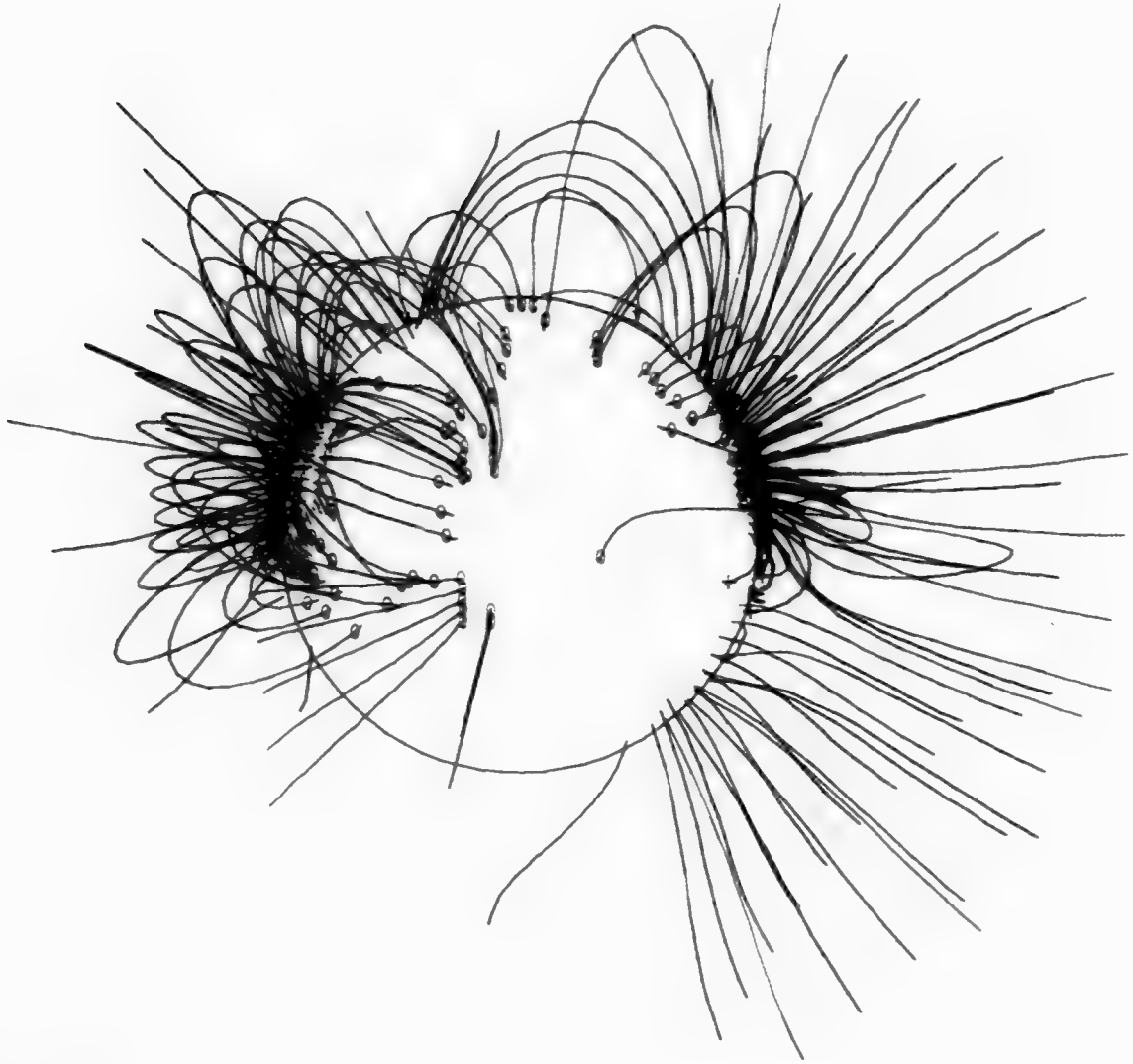
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



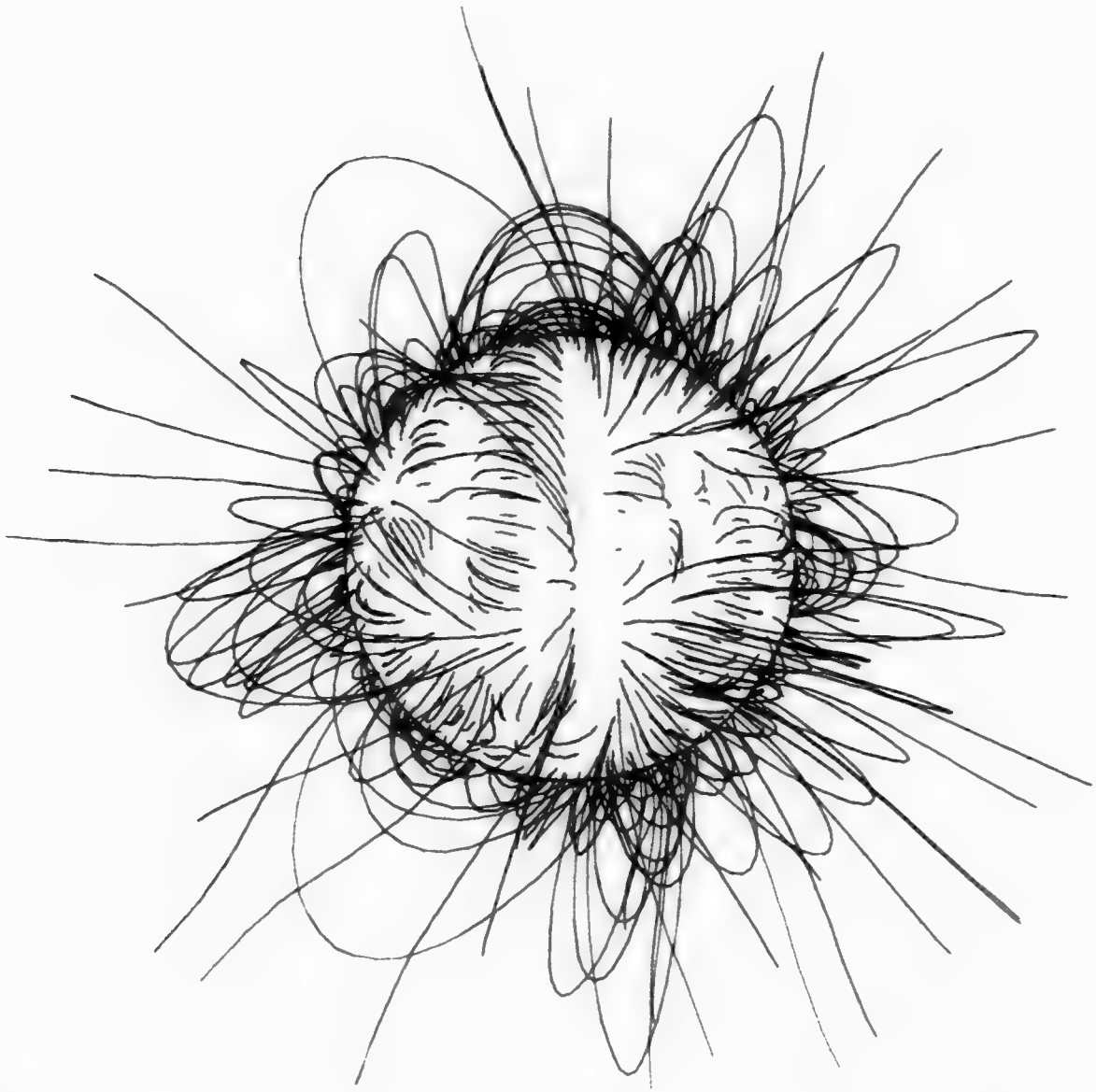
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



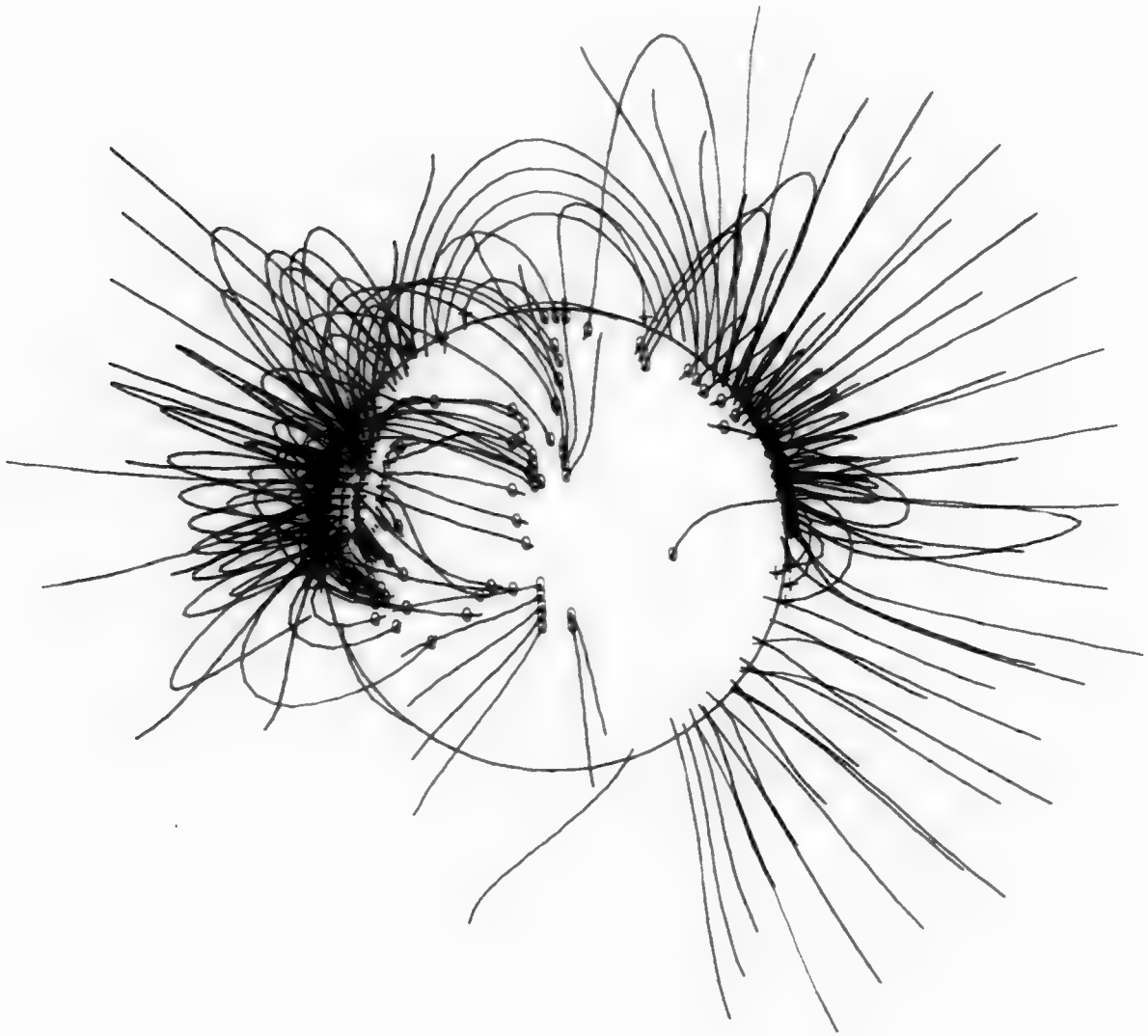
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



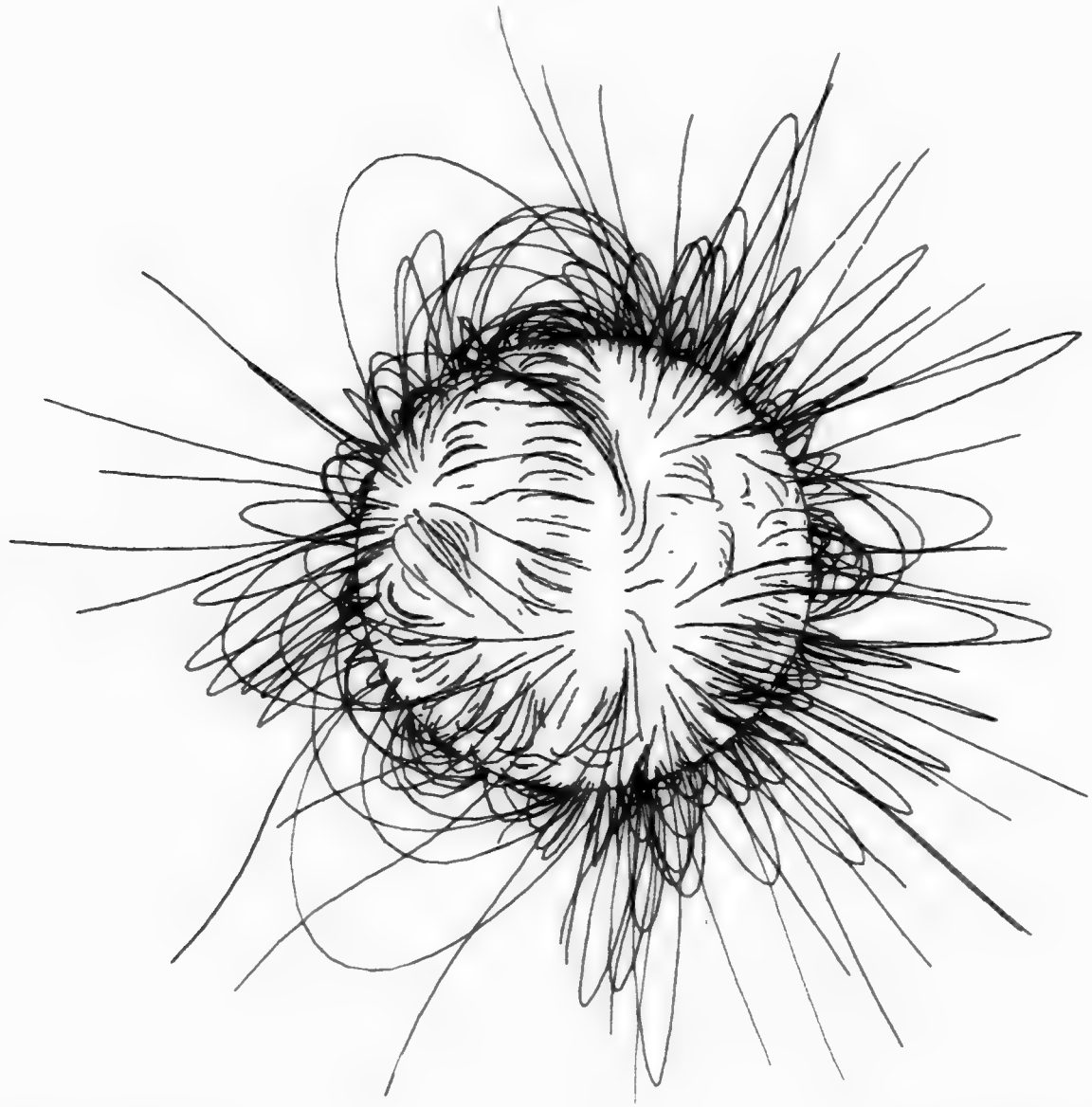
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



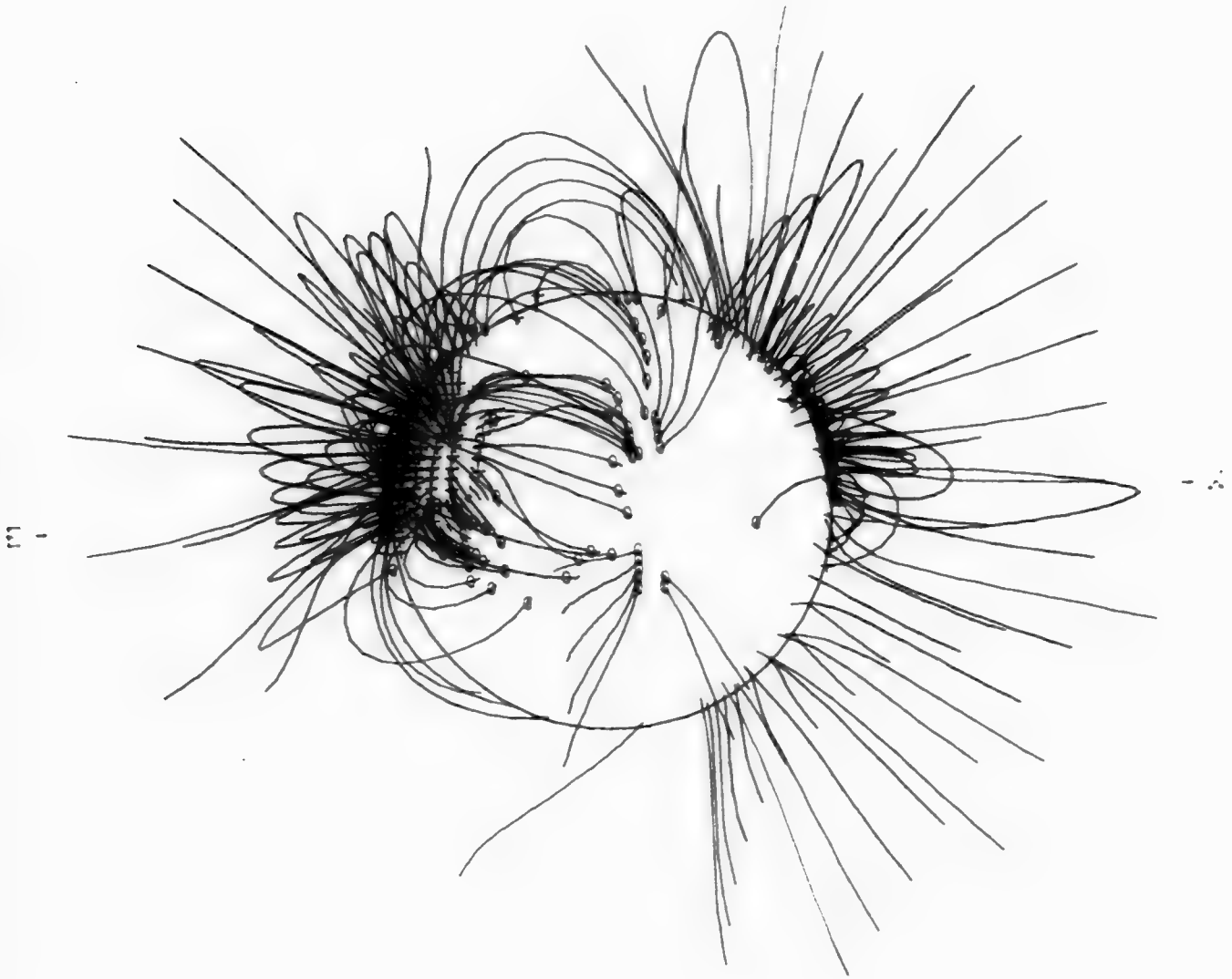
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



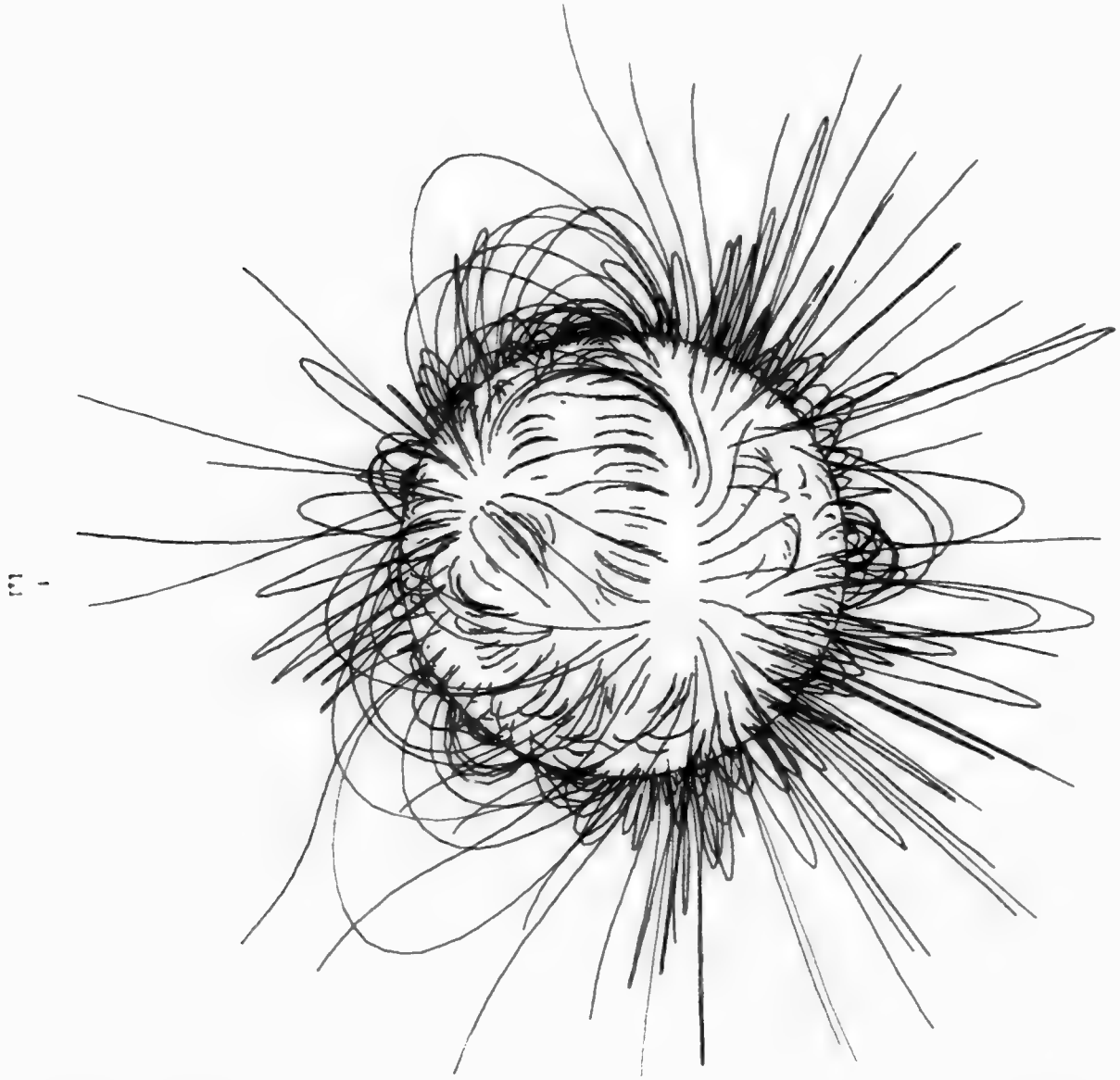
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



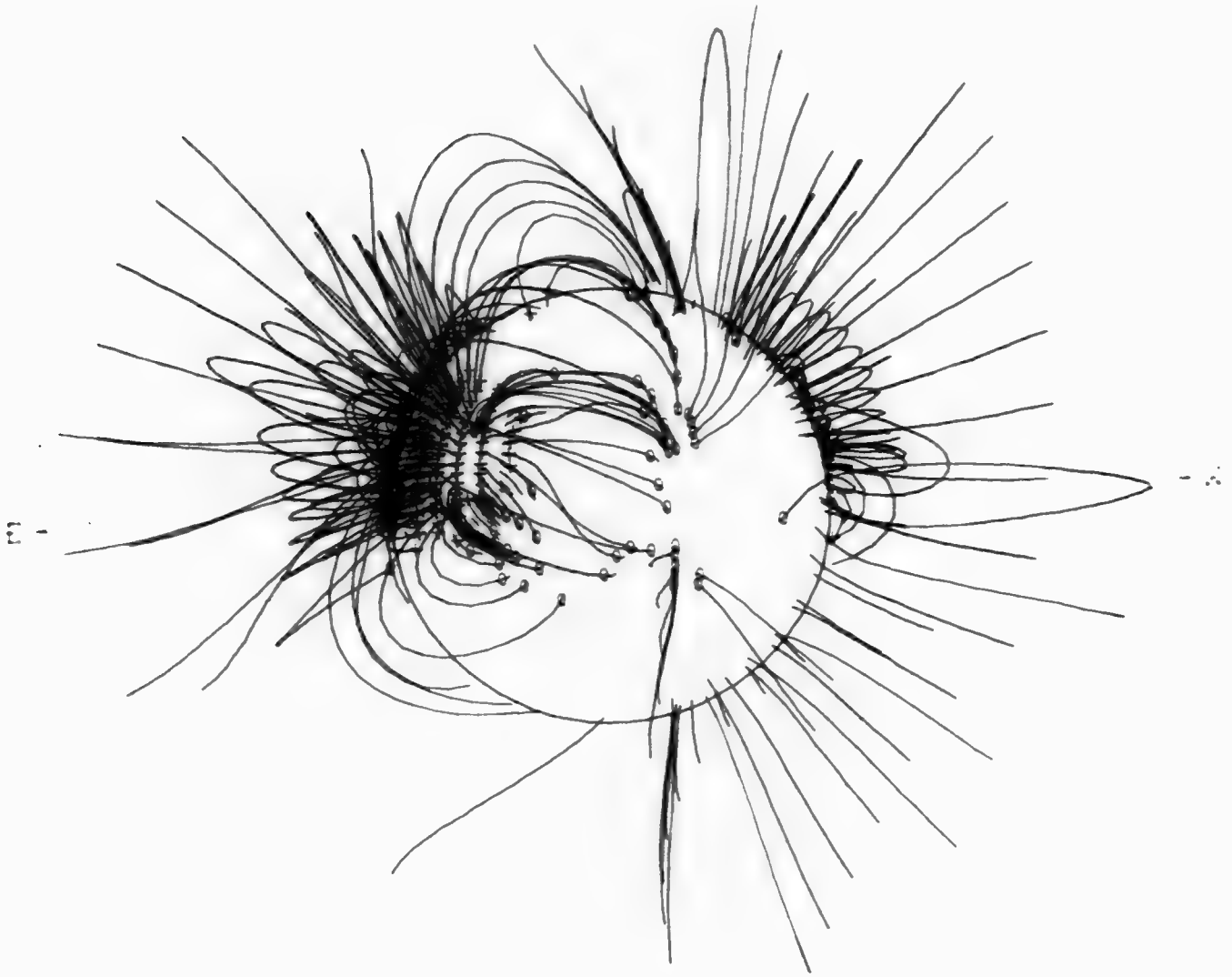
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



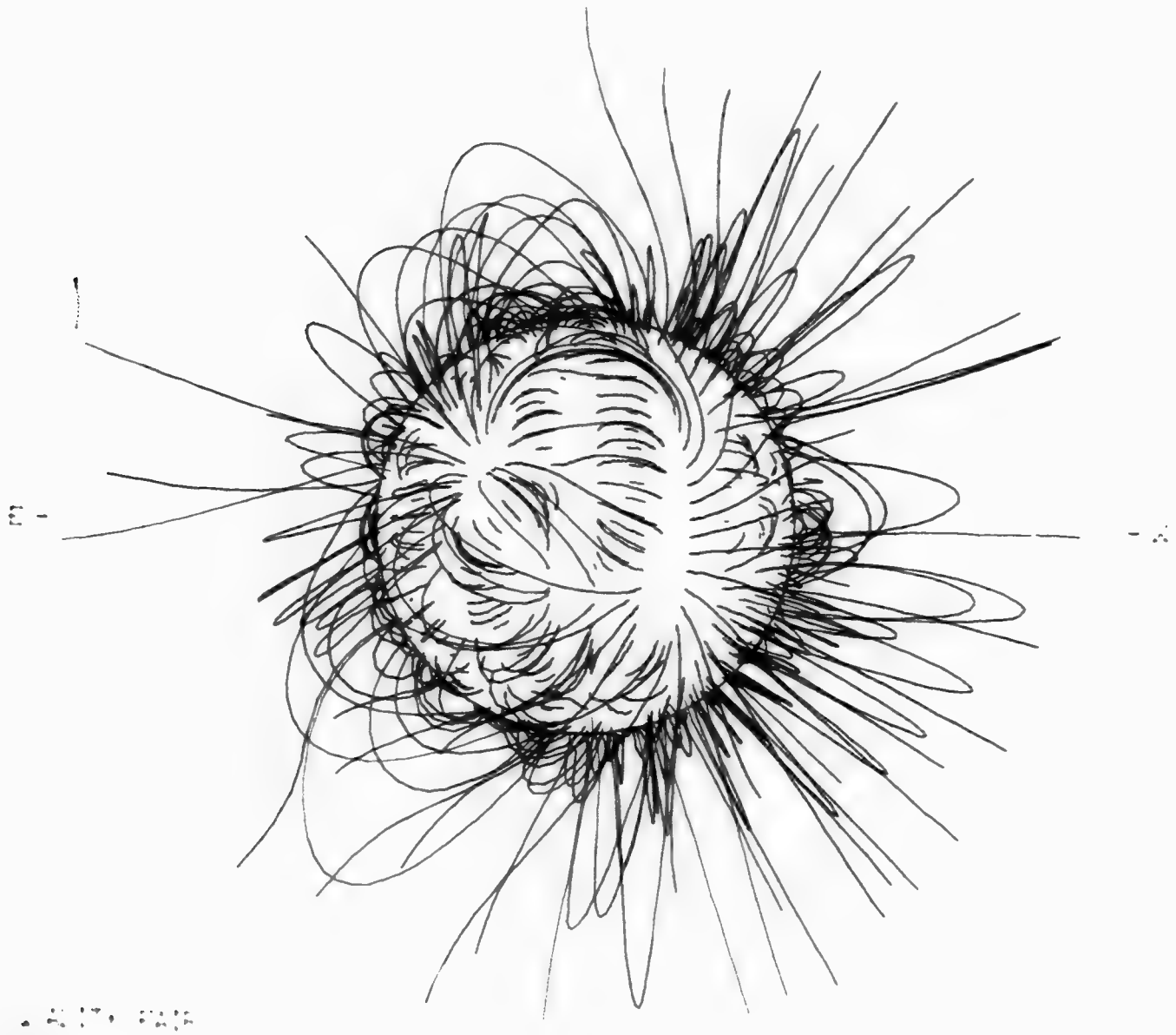
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



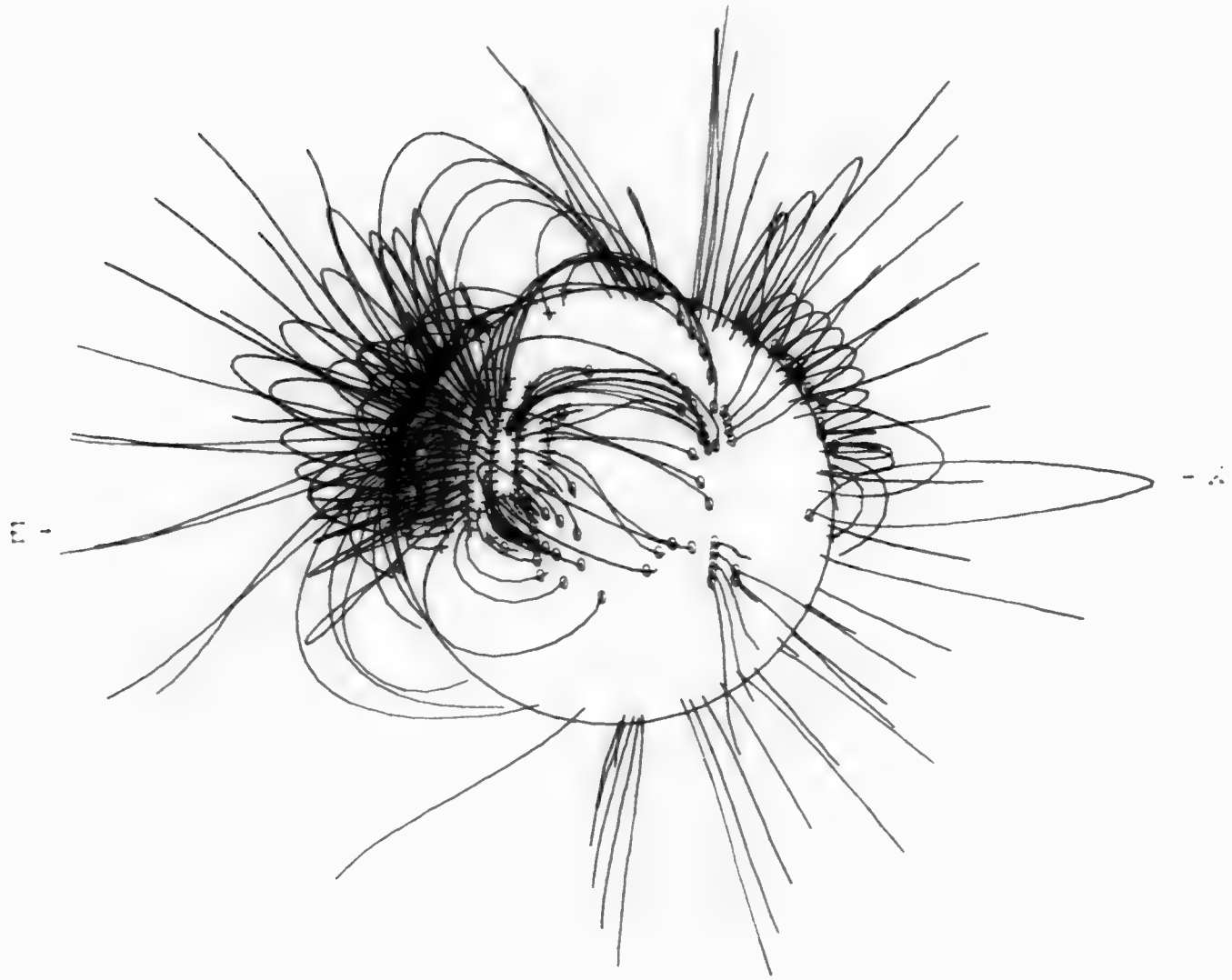
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



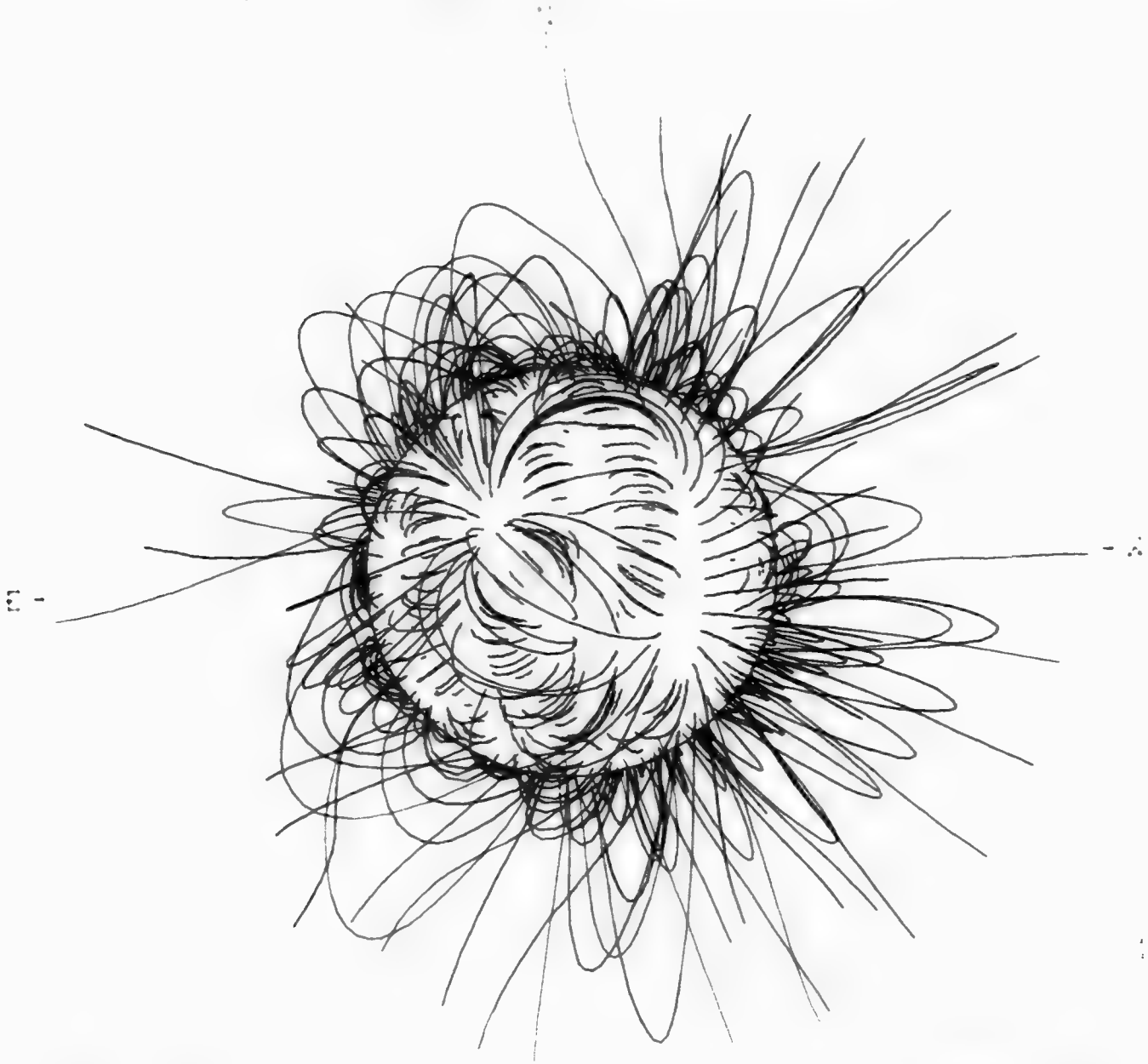
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



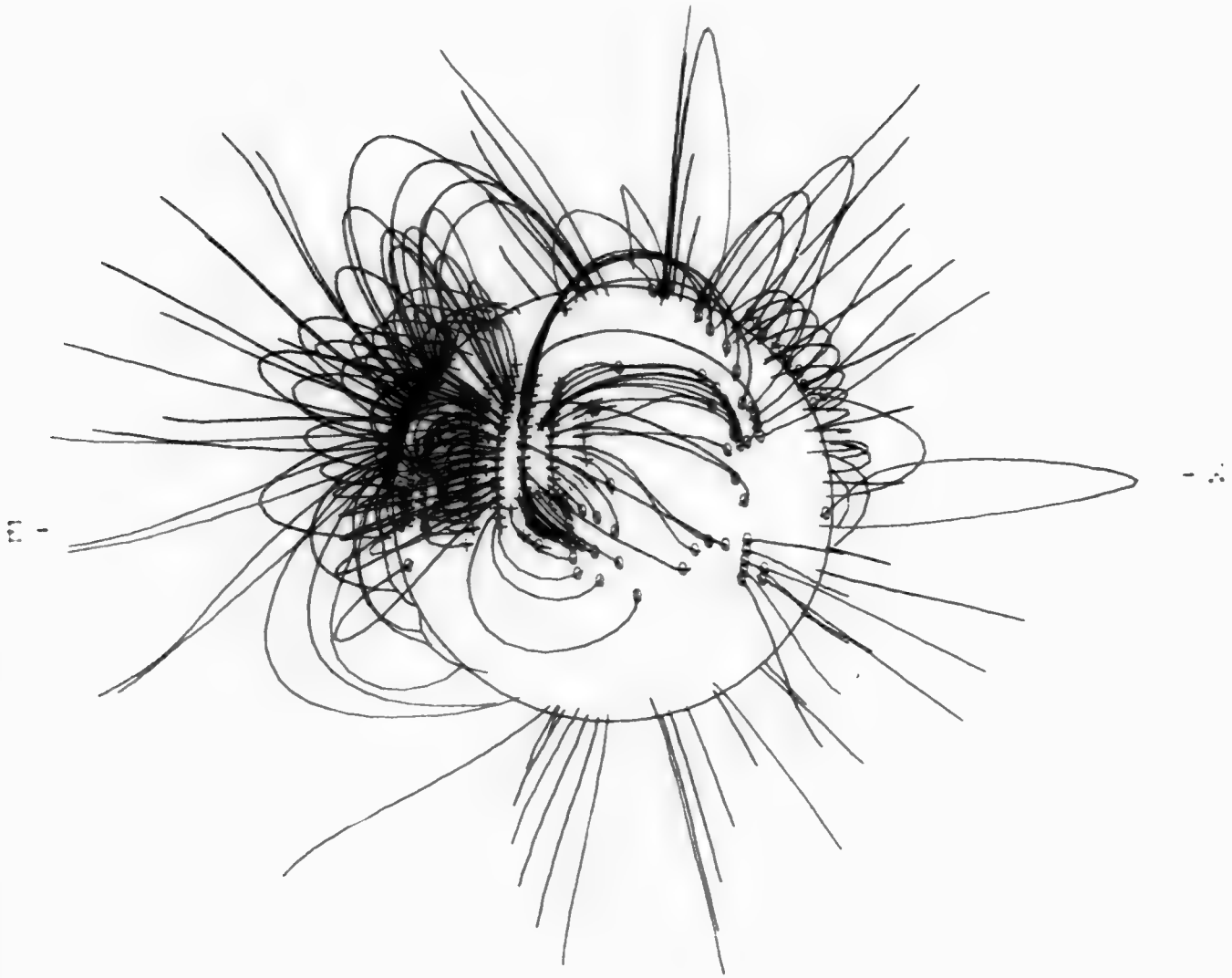
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



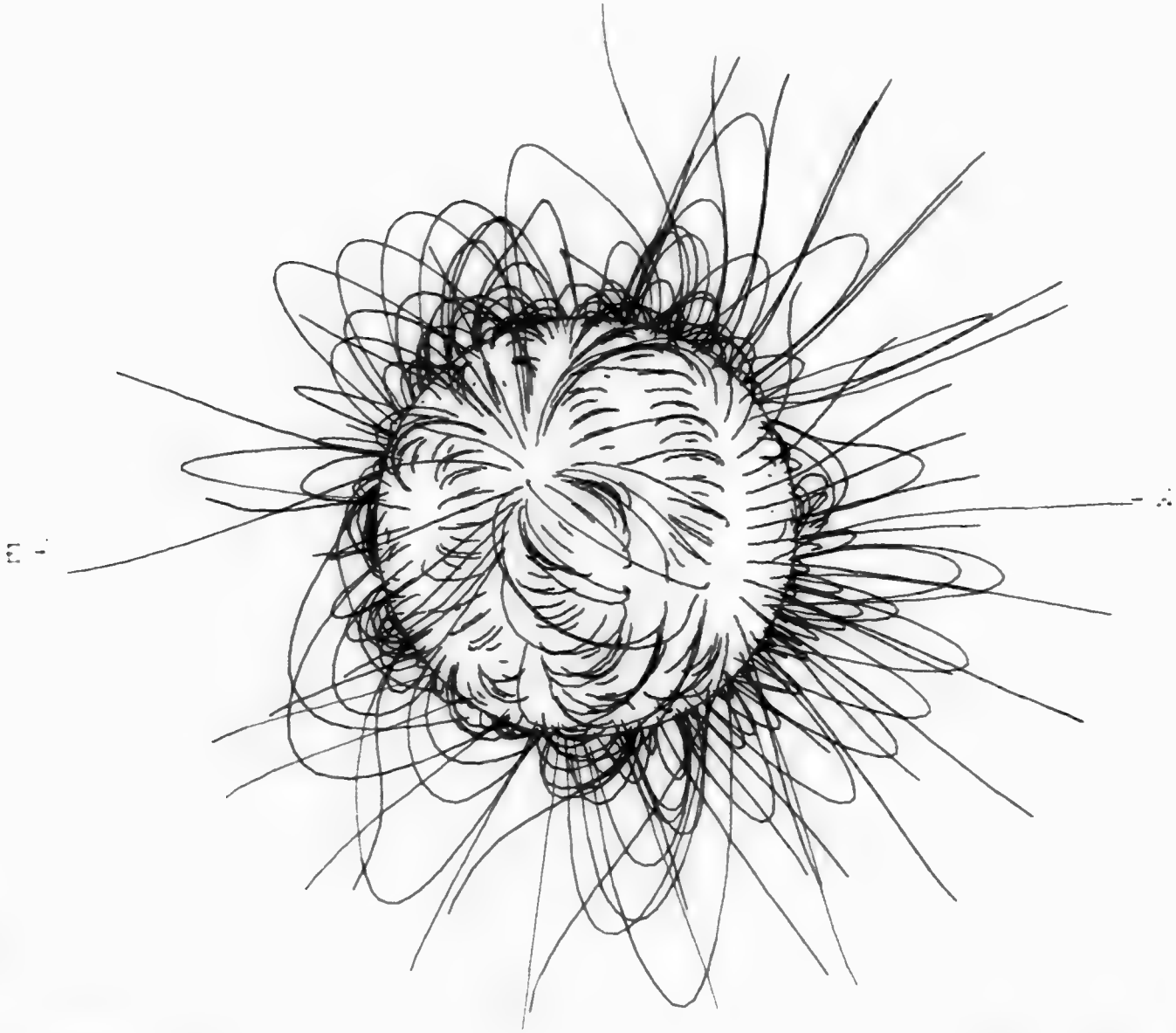
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



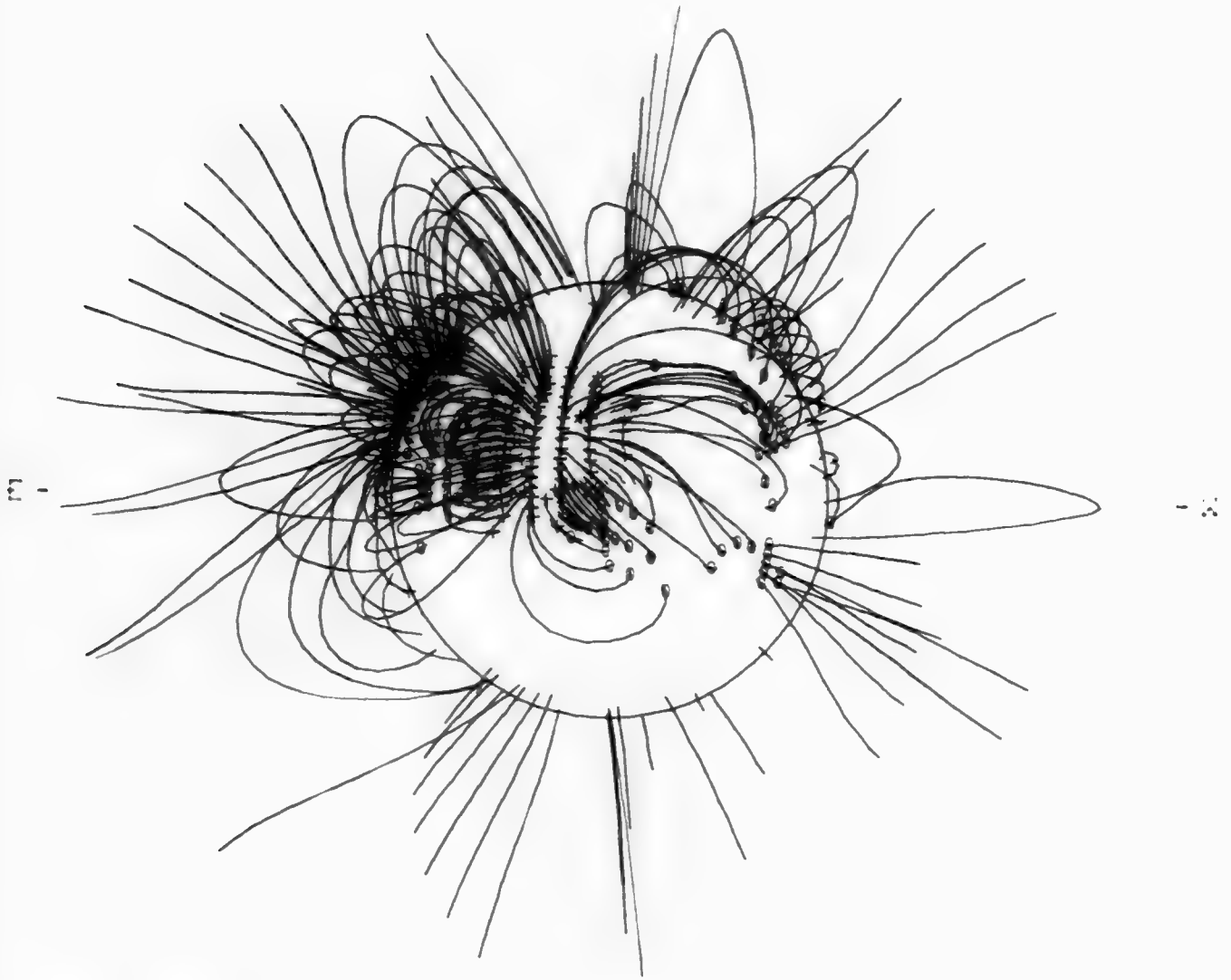
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



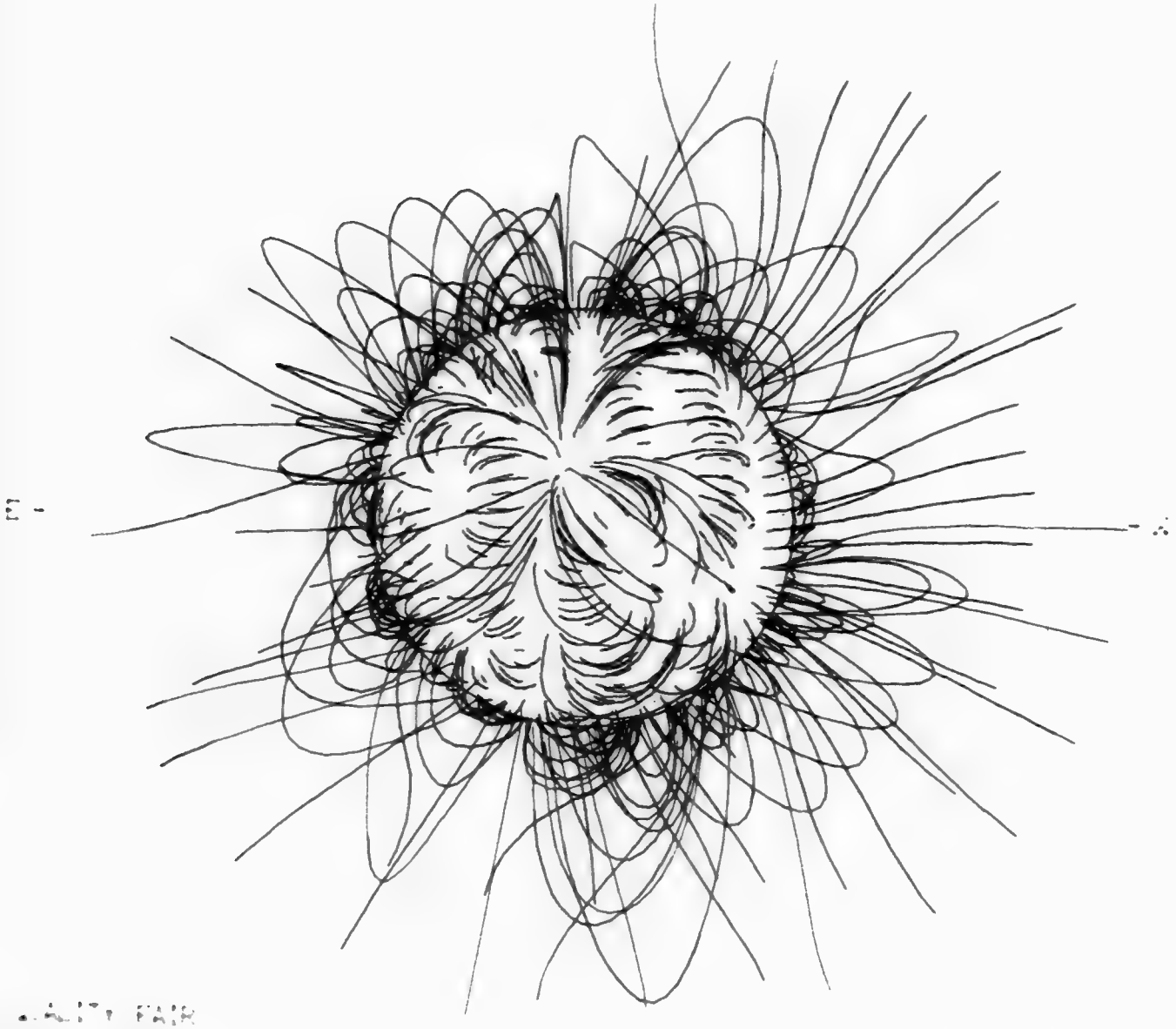
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



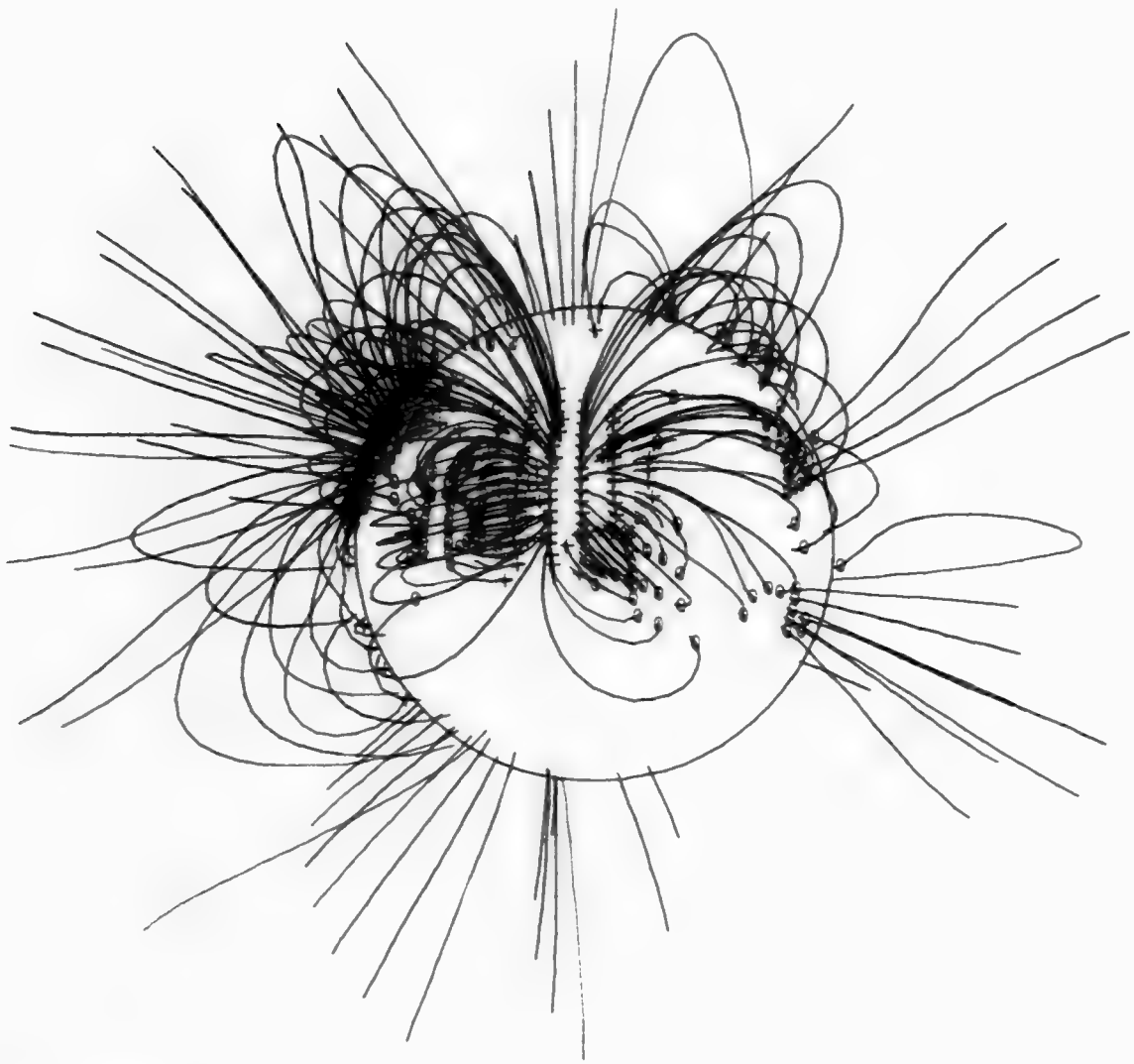
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



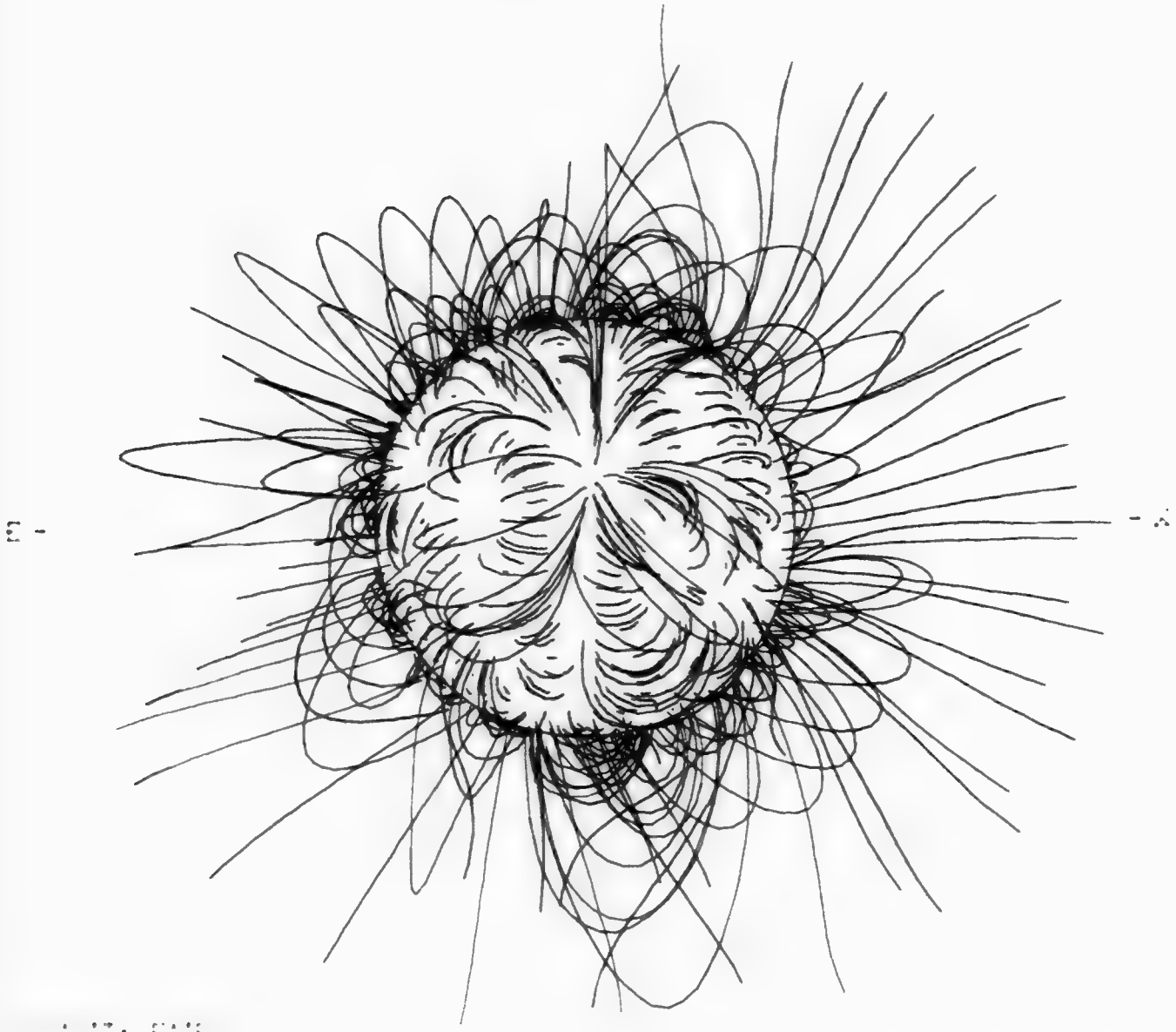
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



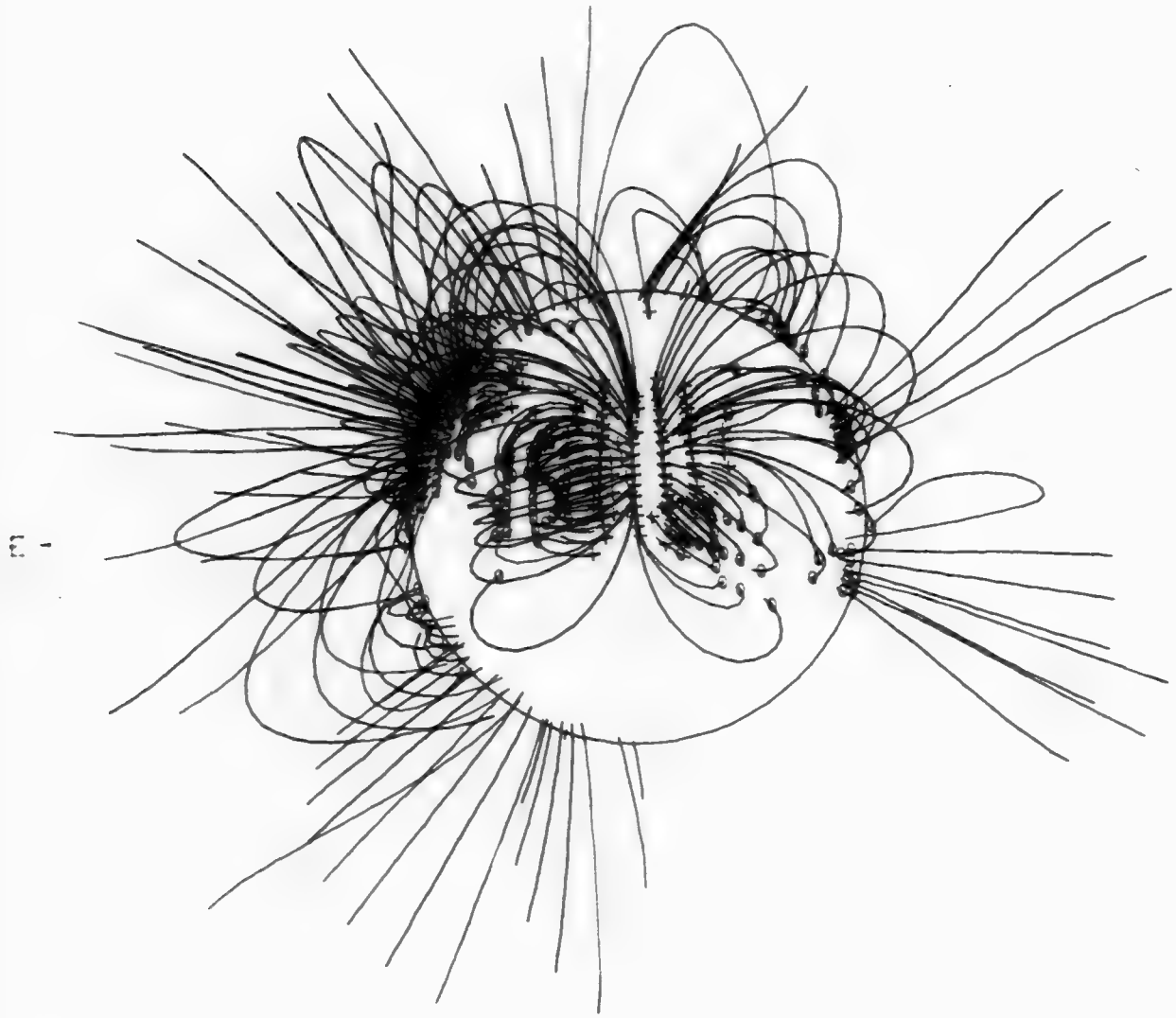
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



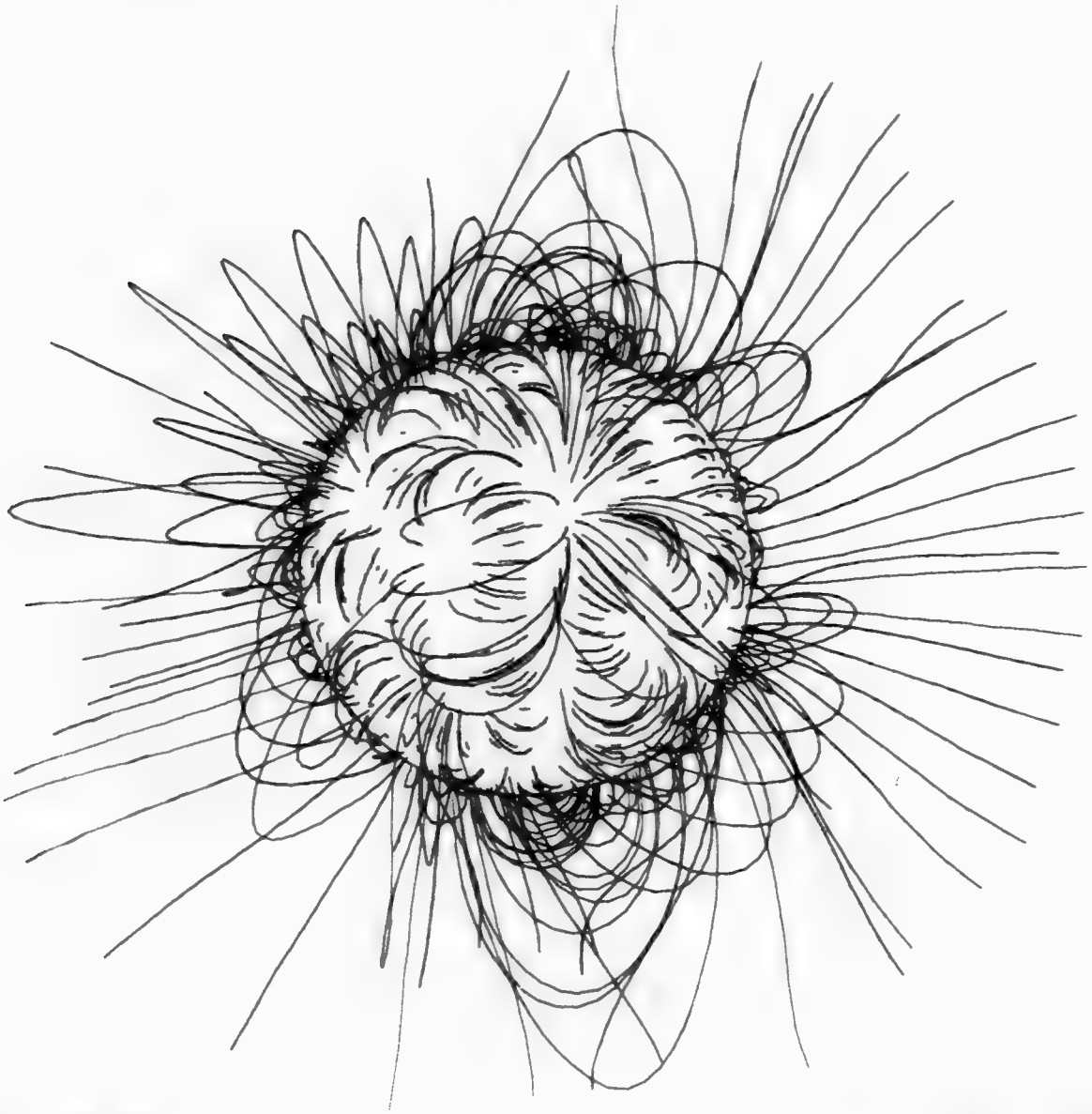
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



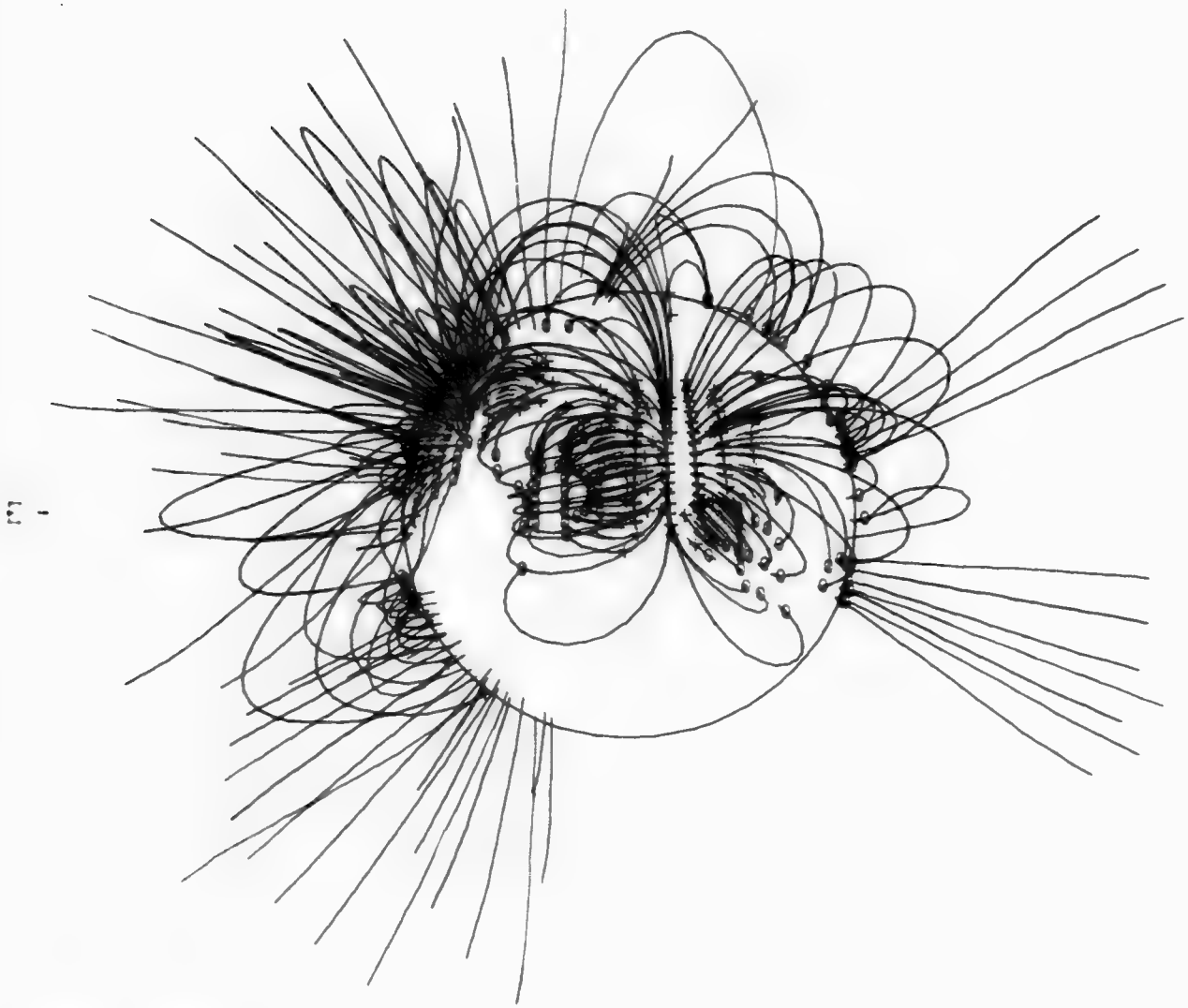
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



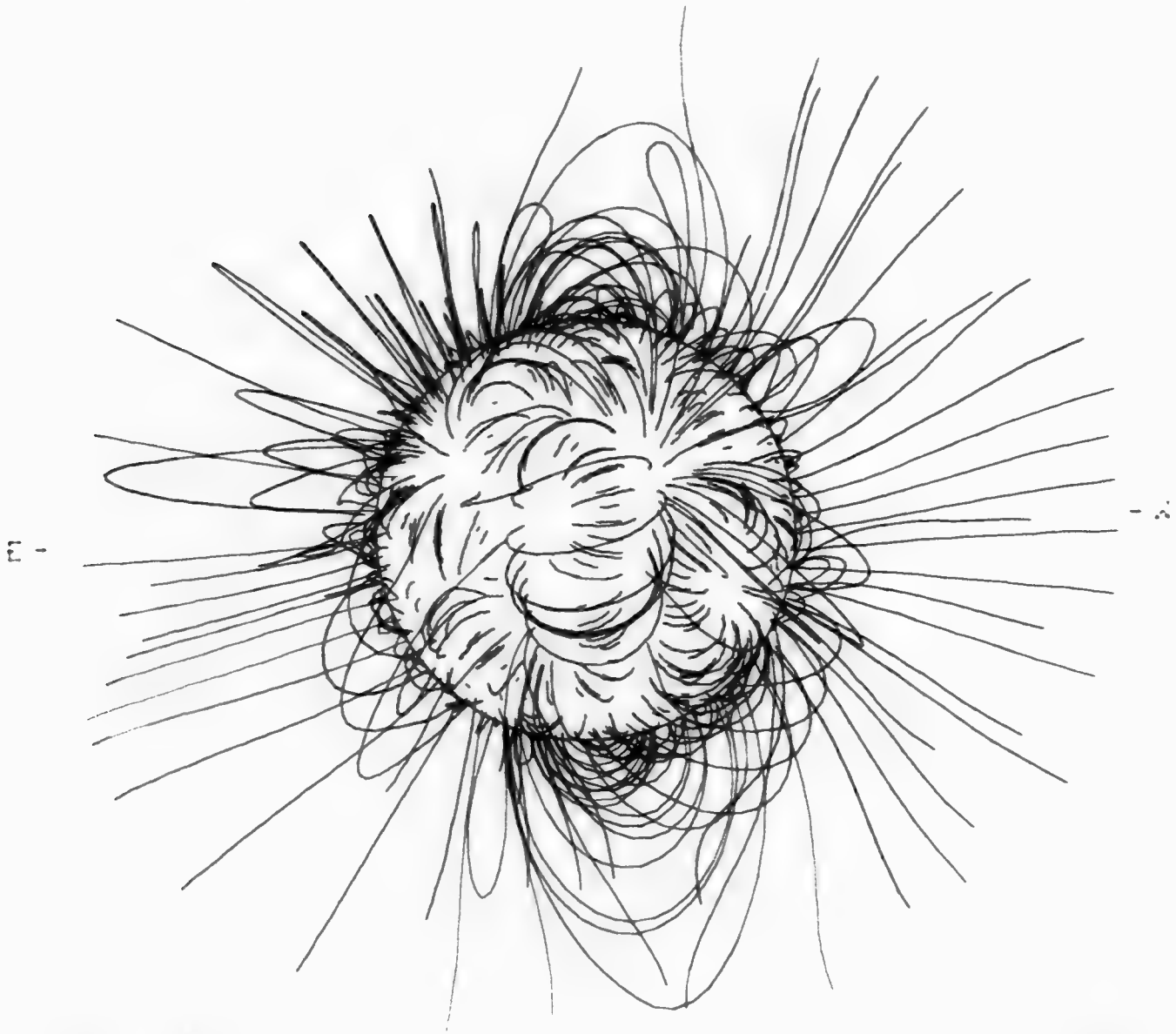
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



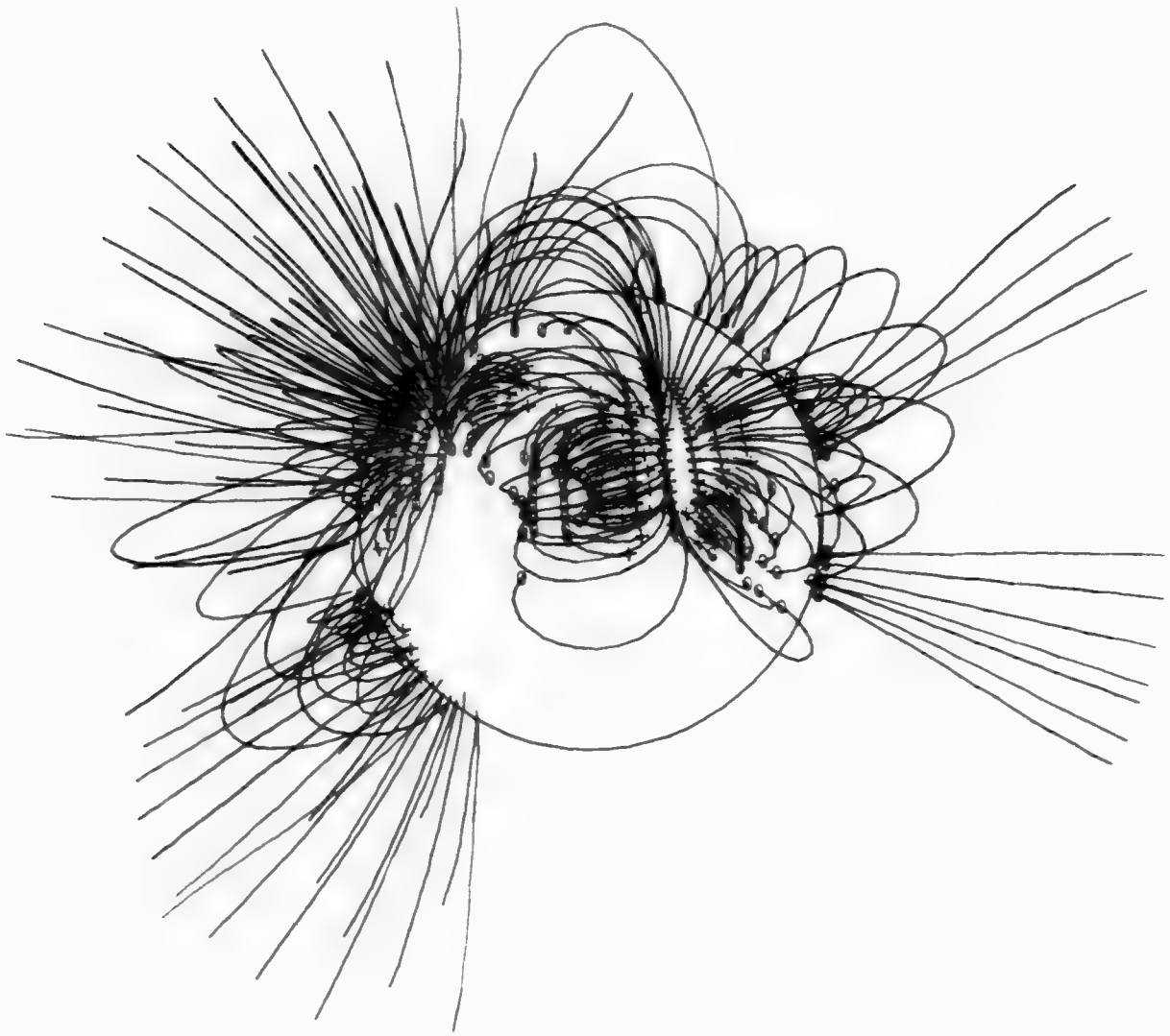
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



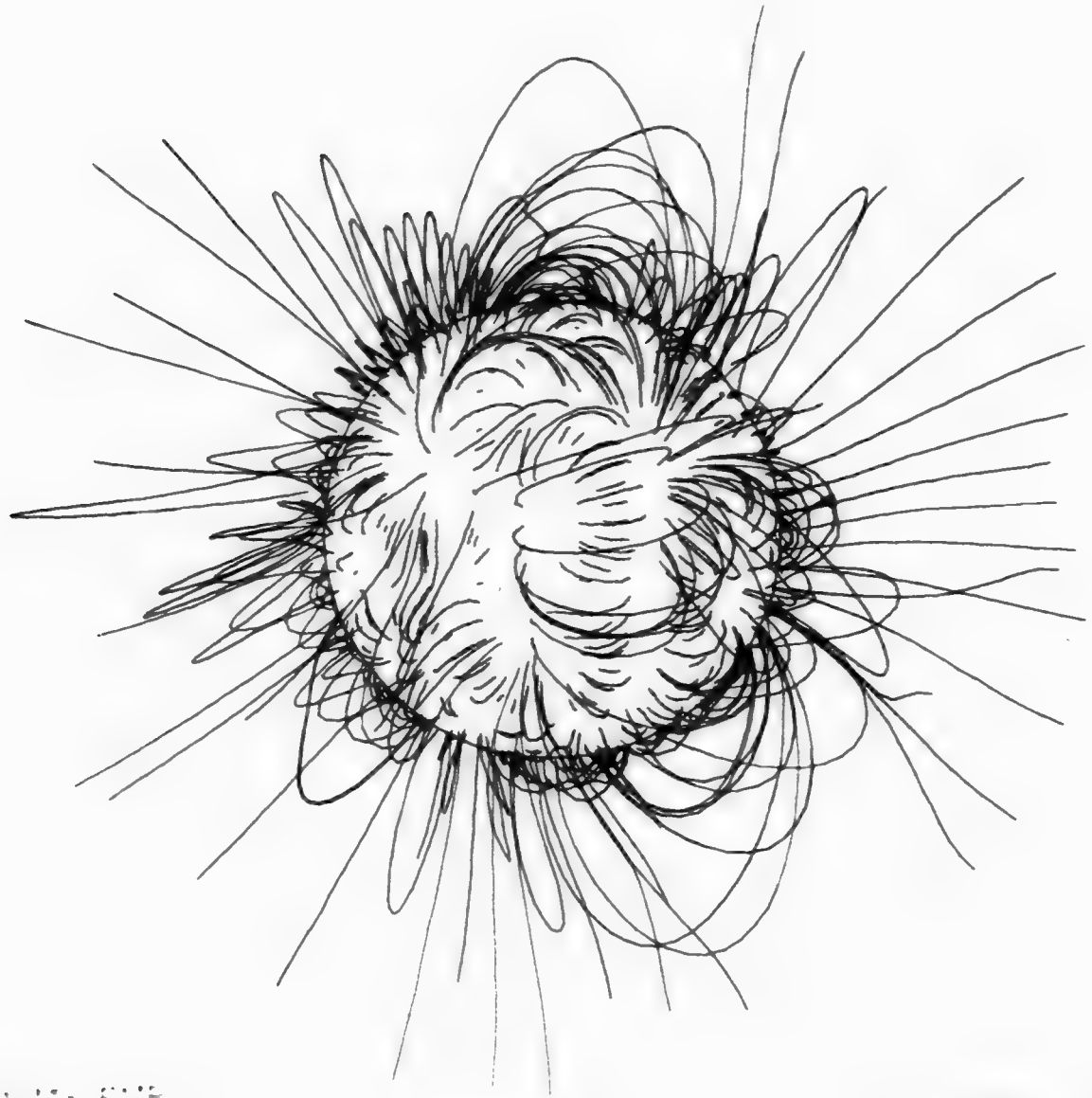
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



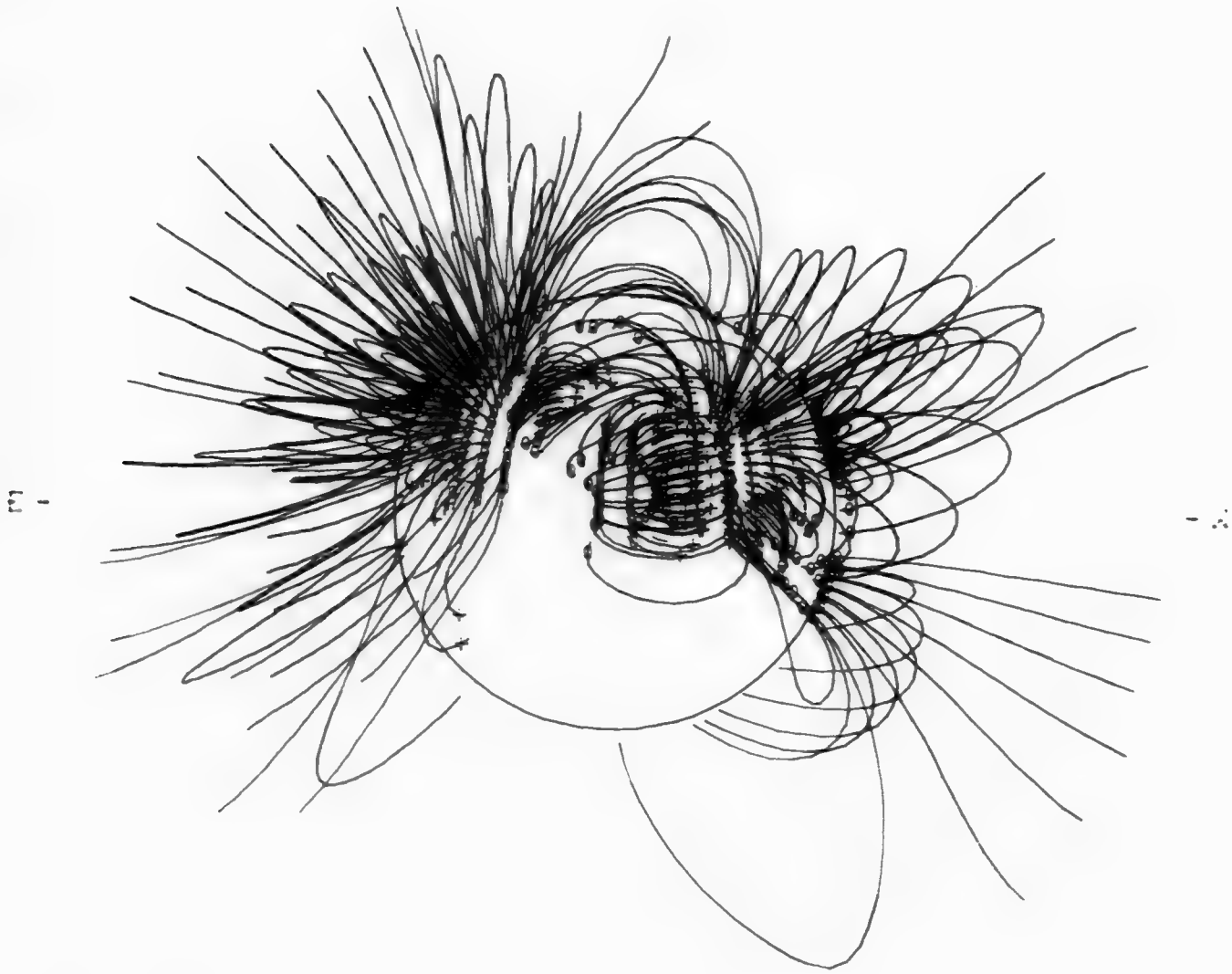
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



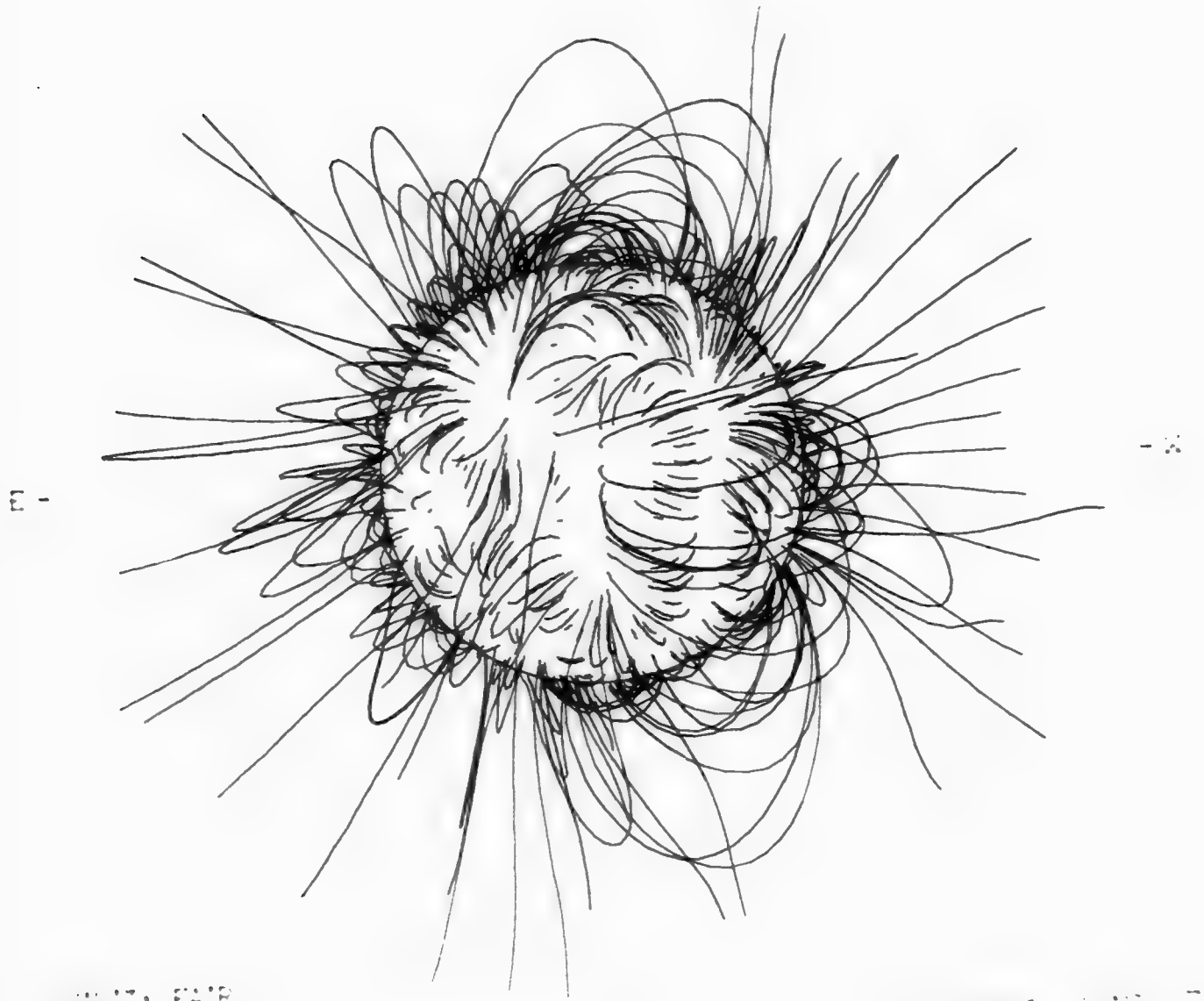
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



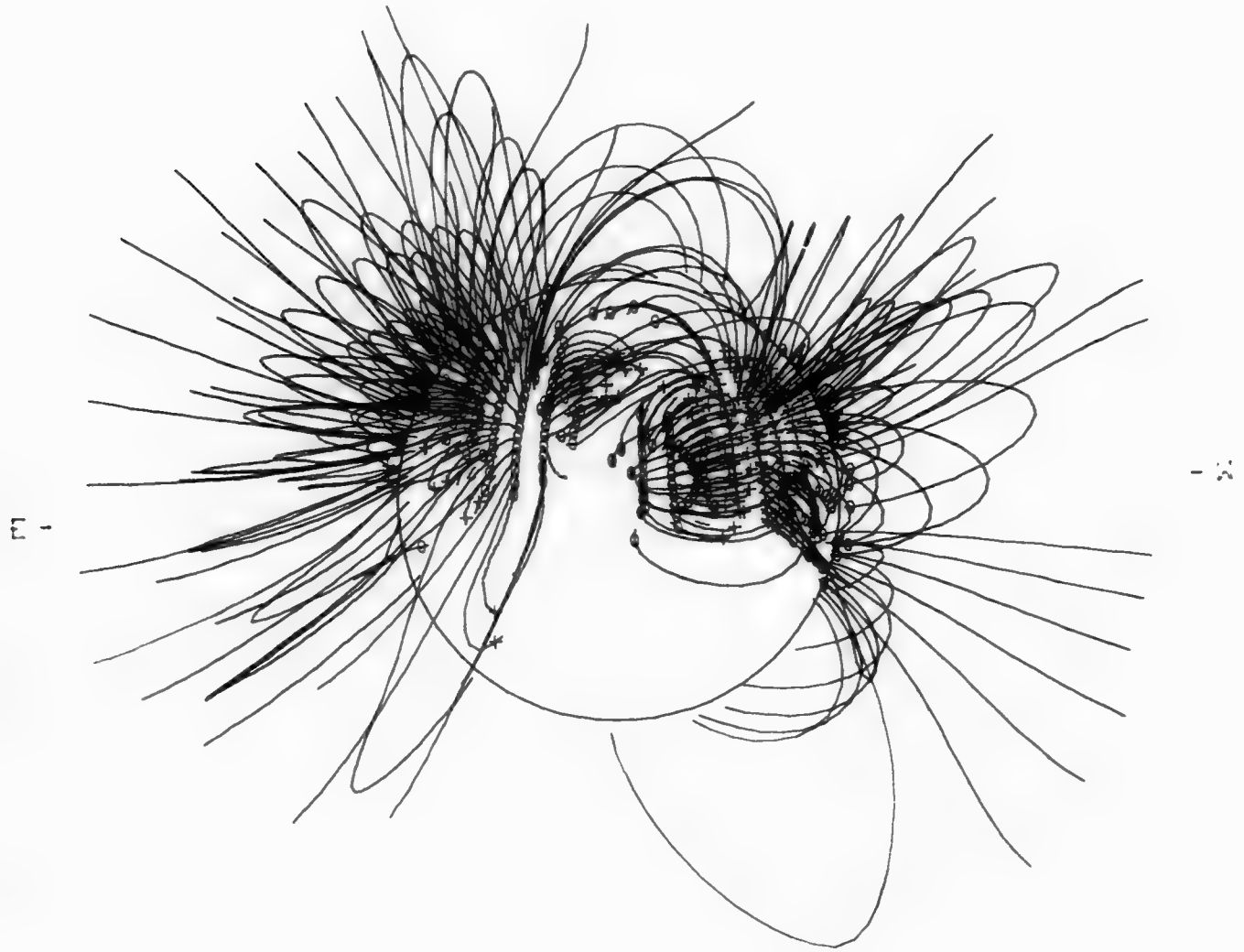
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



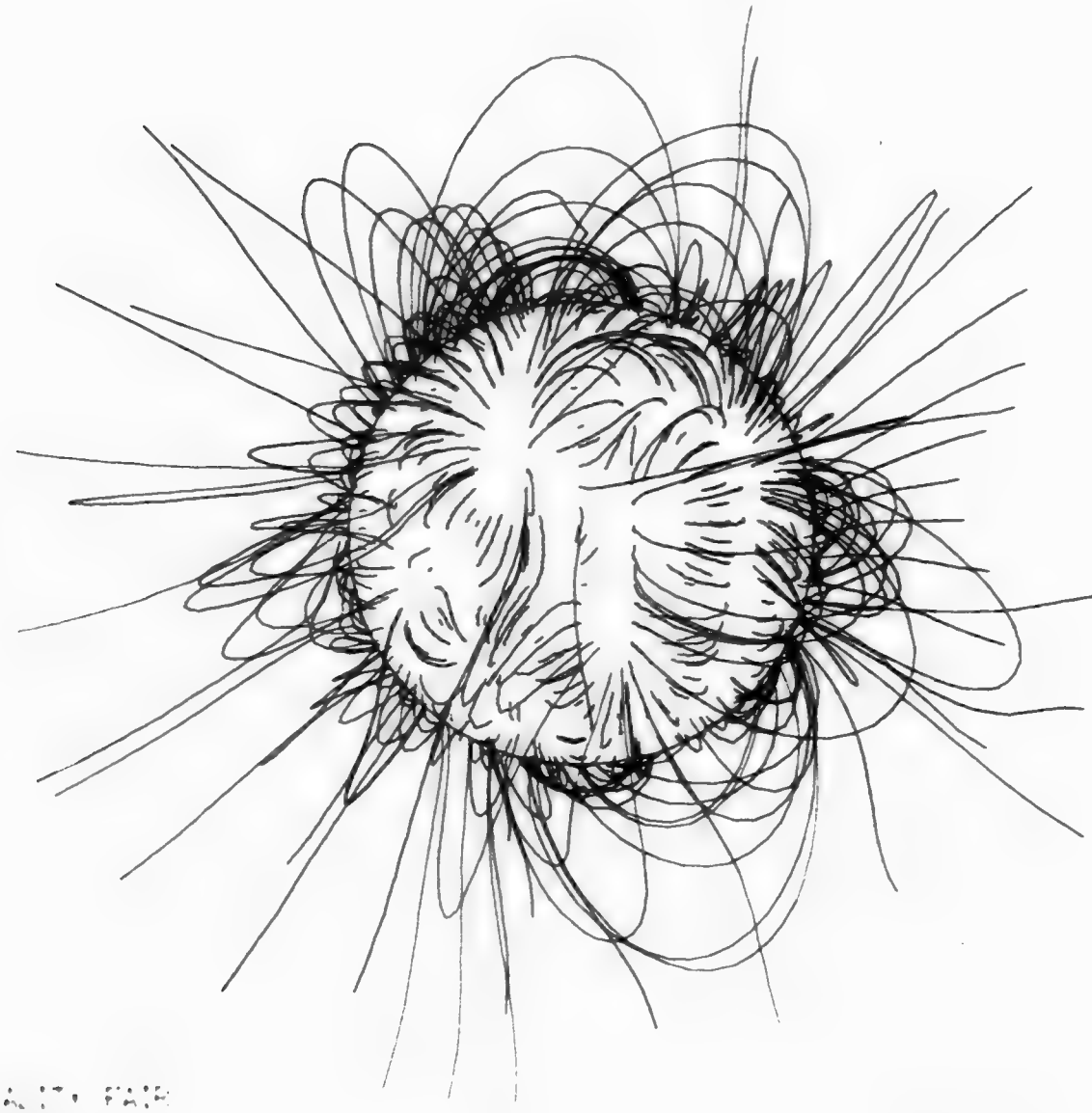
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



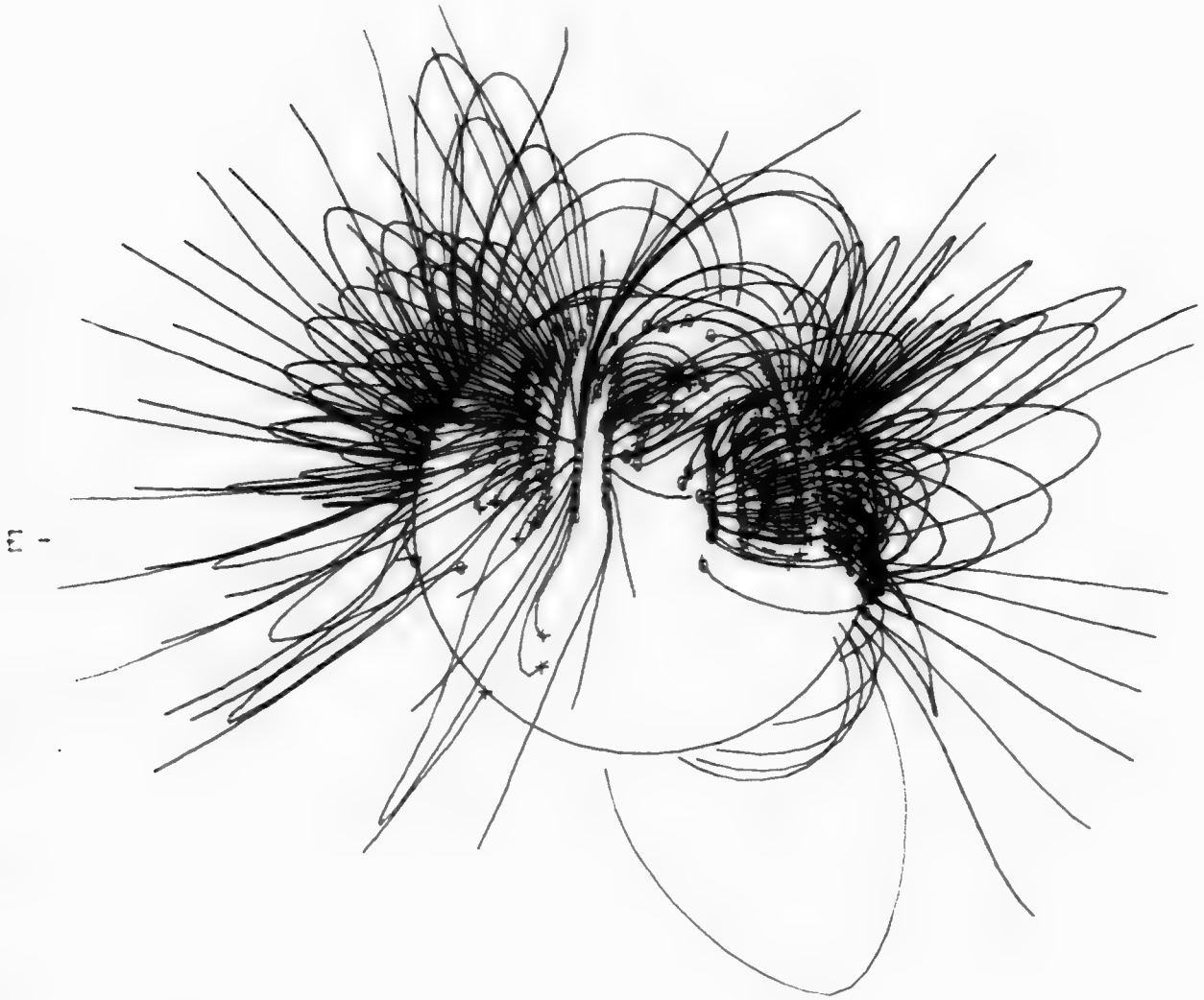
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



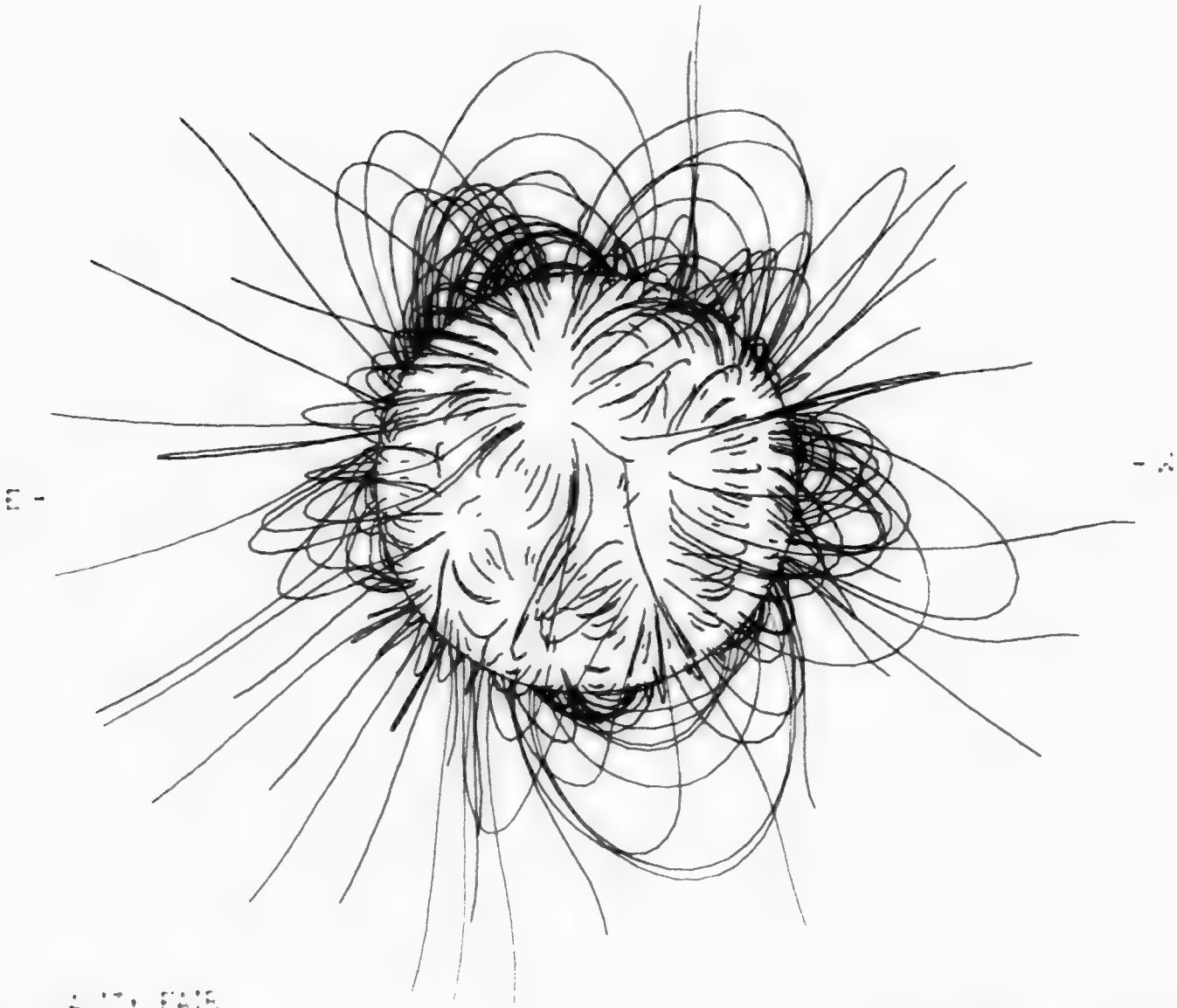
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



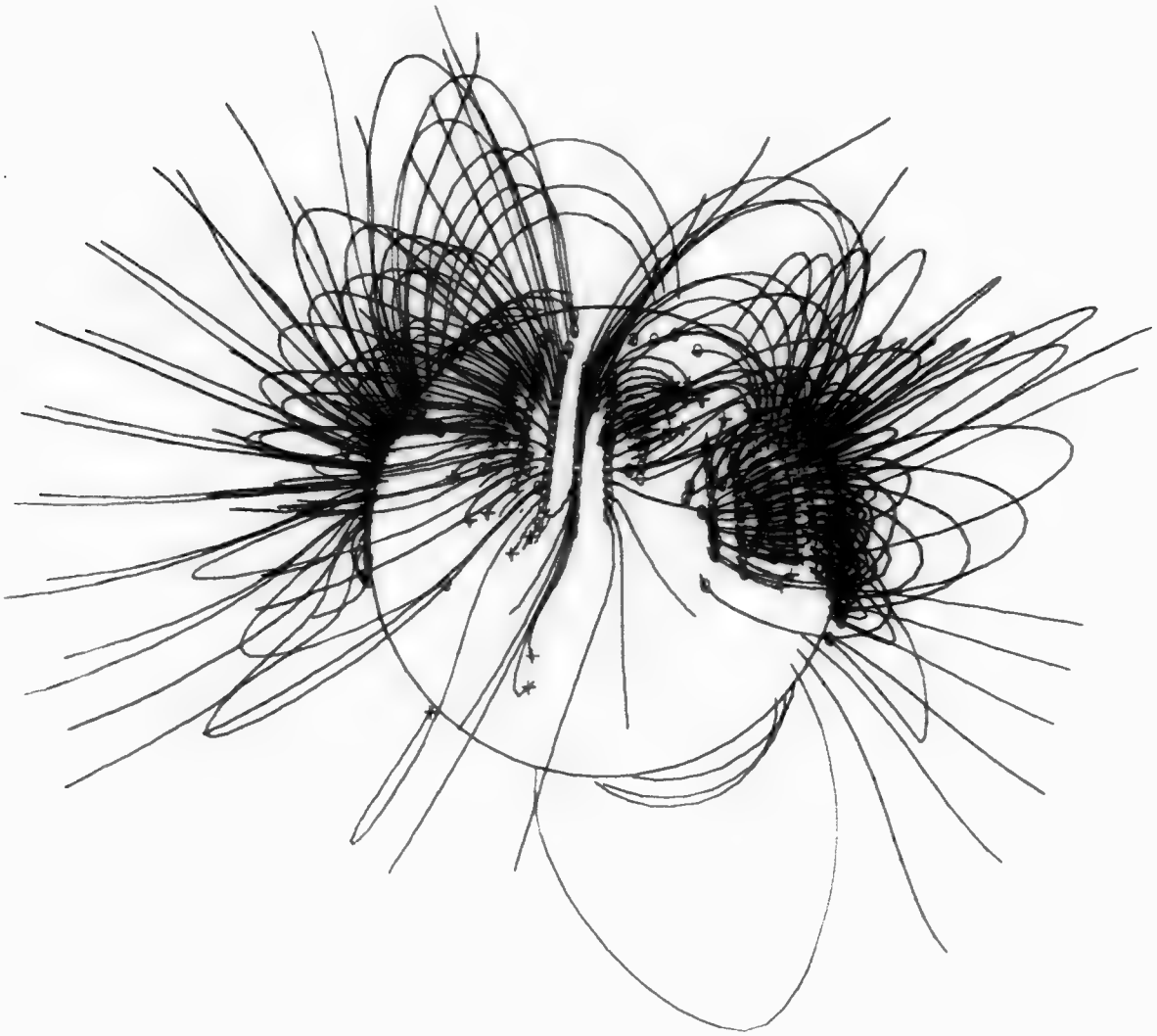
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

QUALITY FAIR

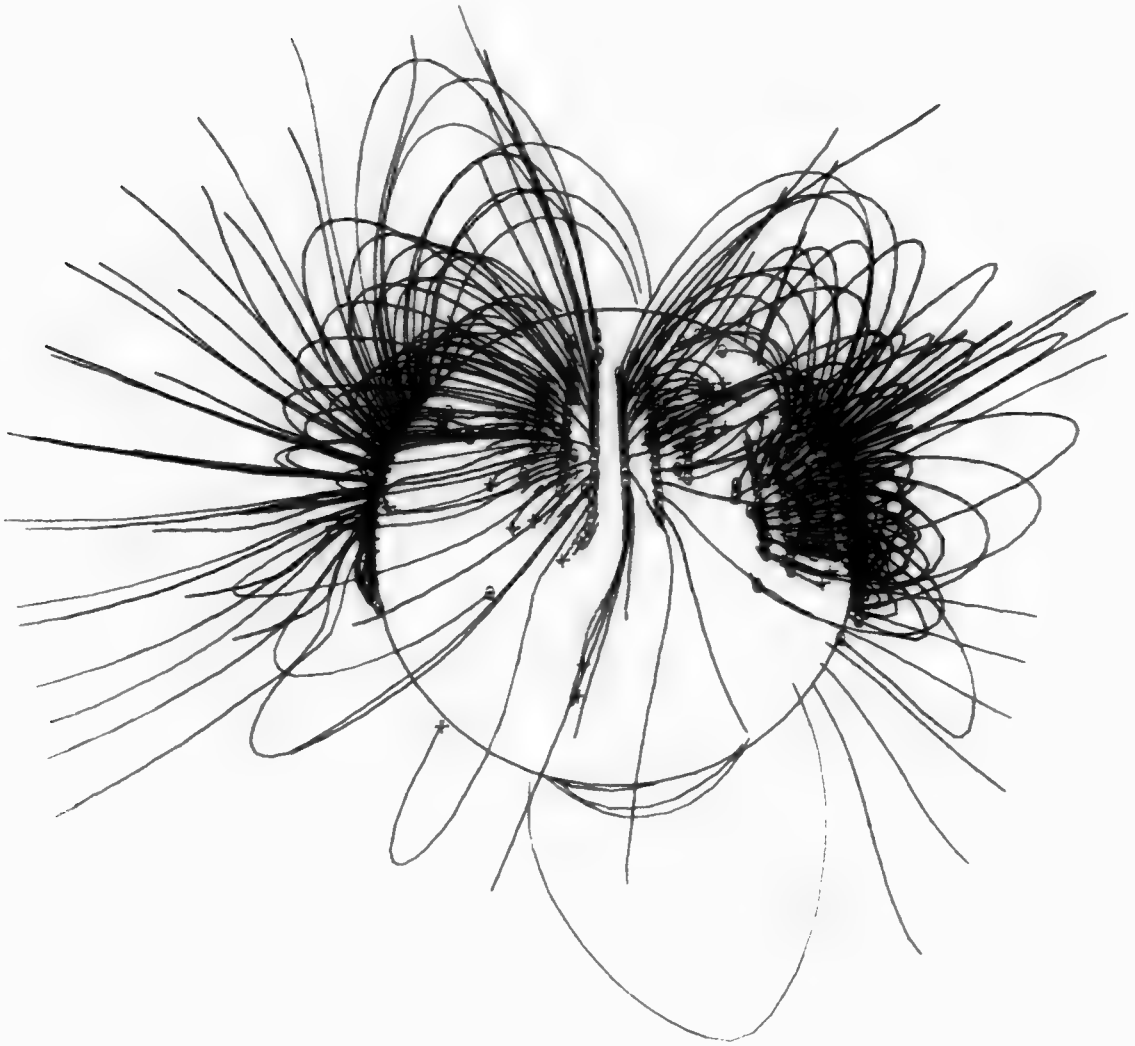
POLES DIRECT

DATA AVAILABLE 1546.47

ROT. 1546 LONG. 40°

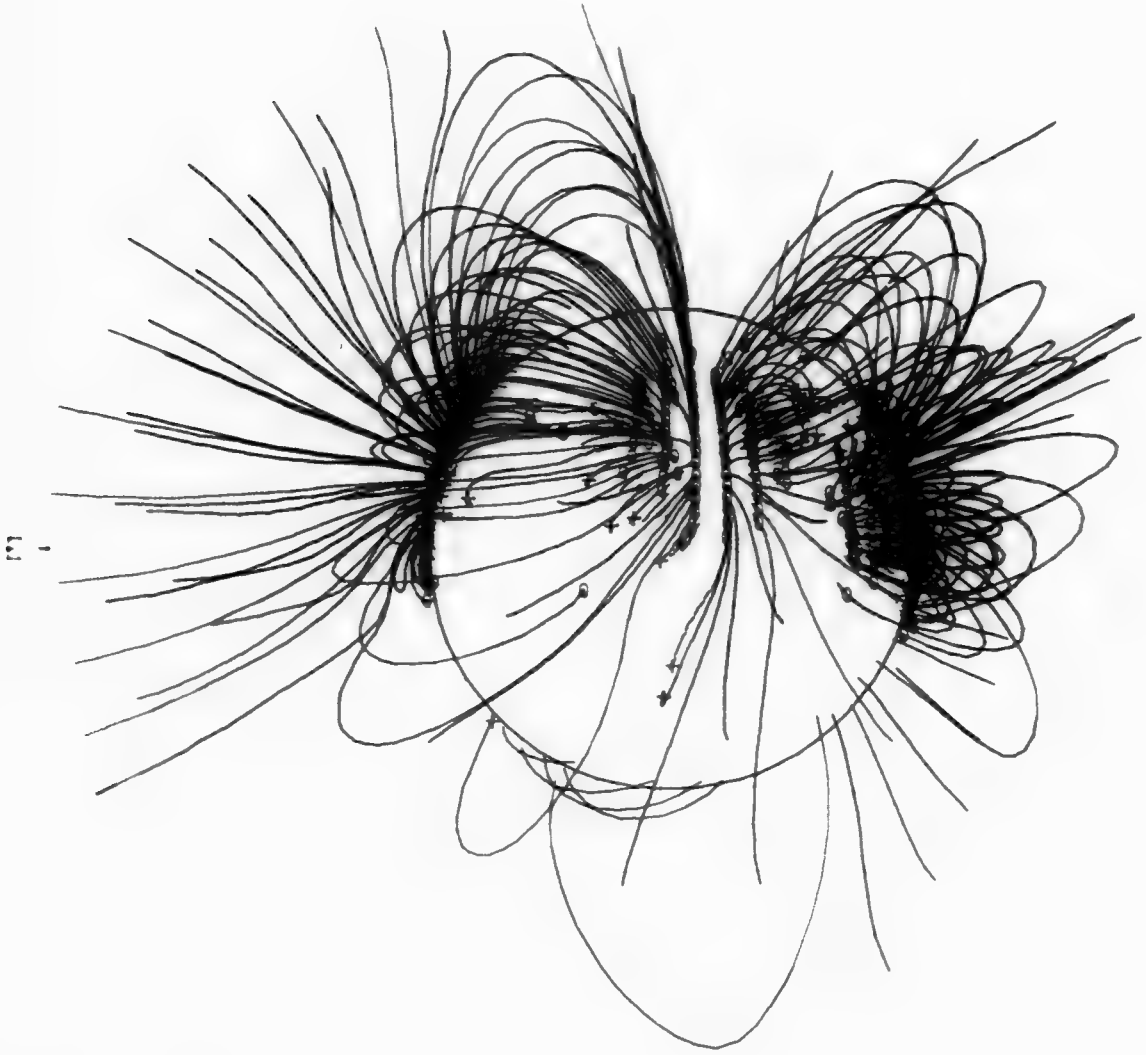
20.6 APR 1959

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

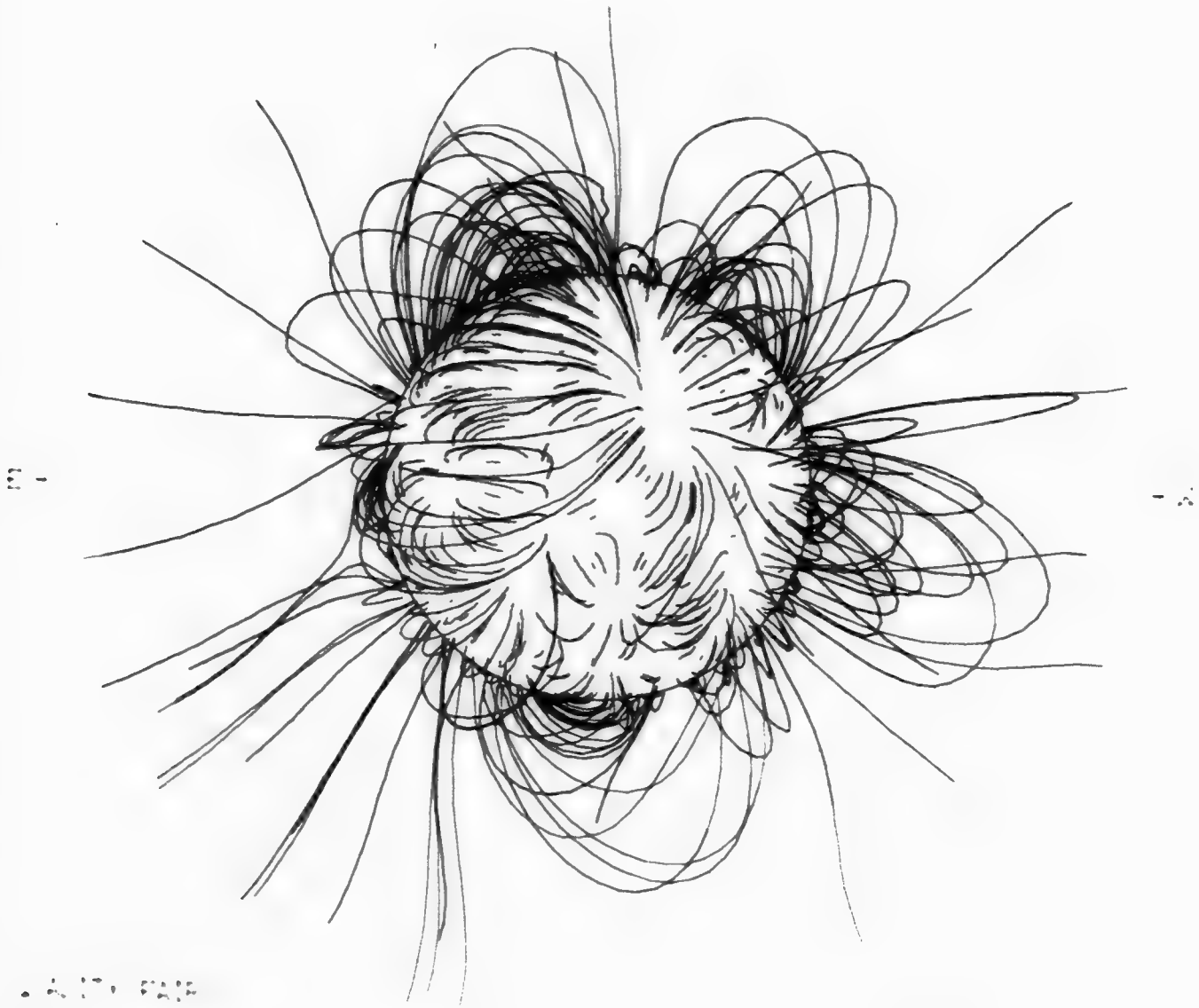


HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

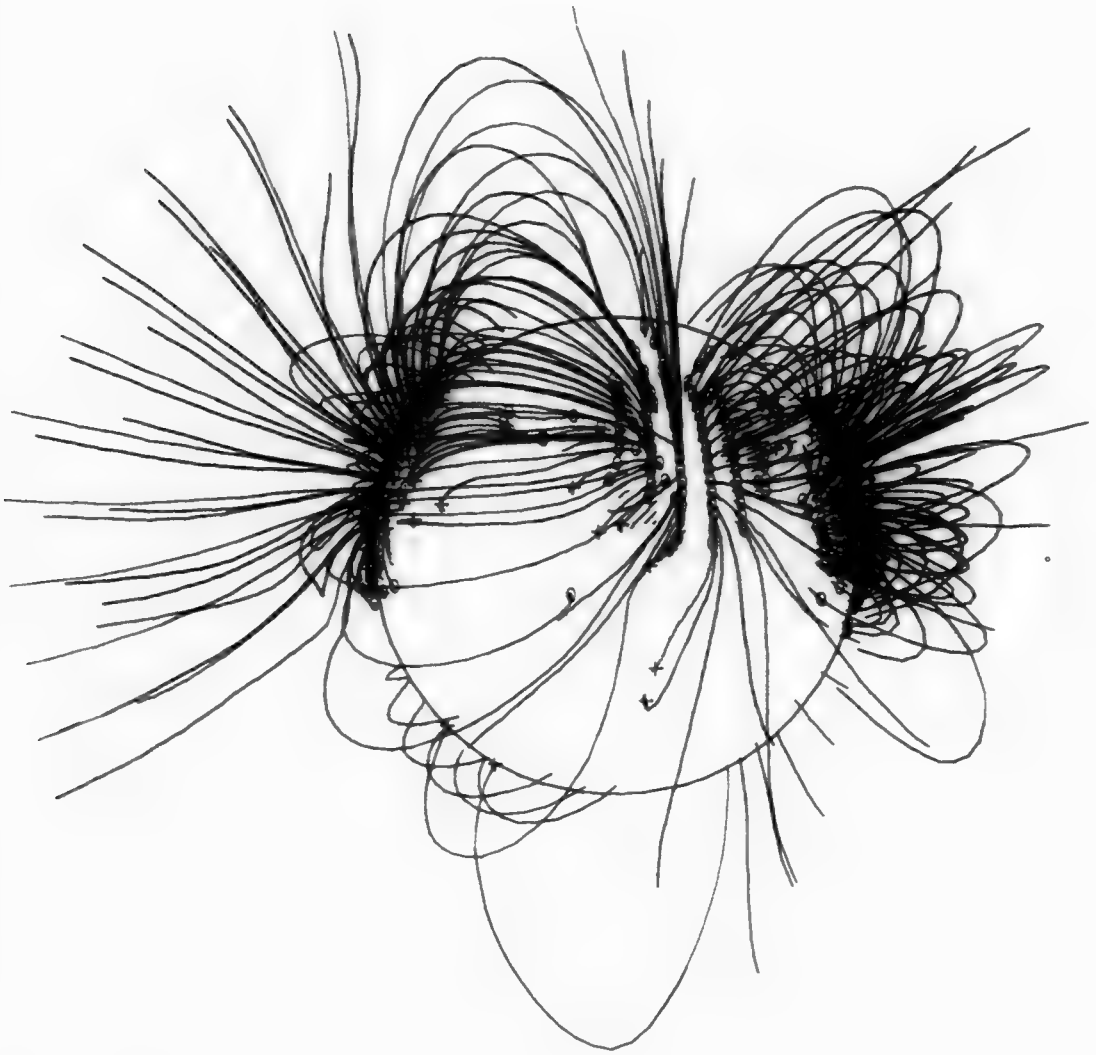
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



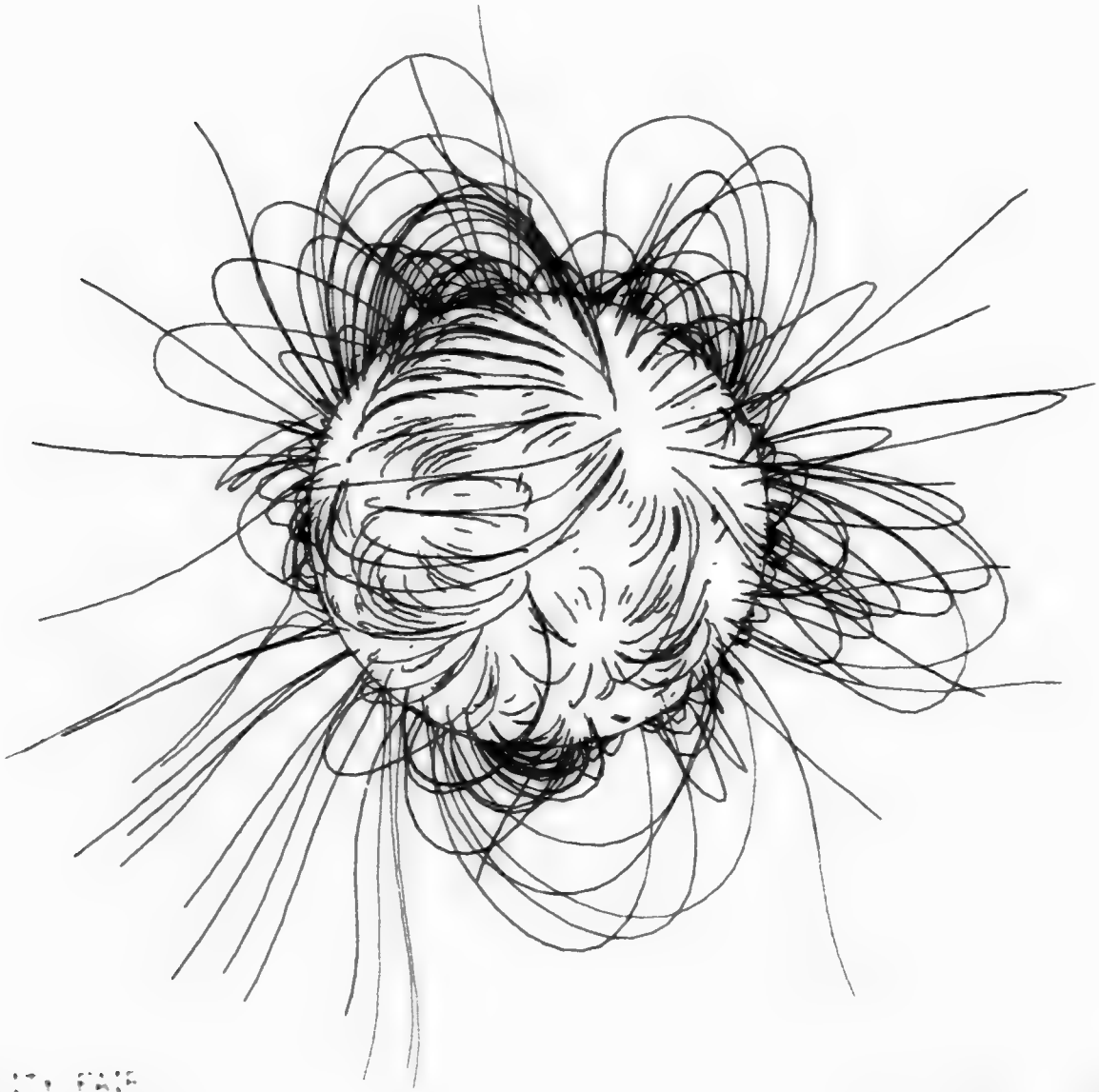
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



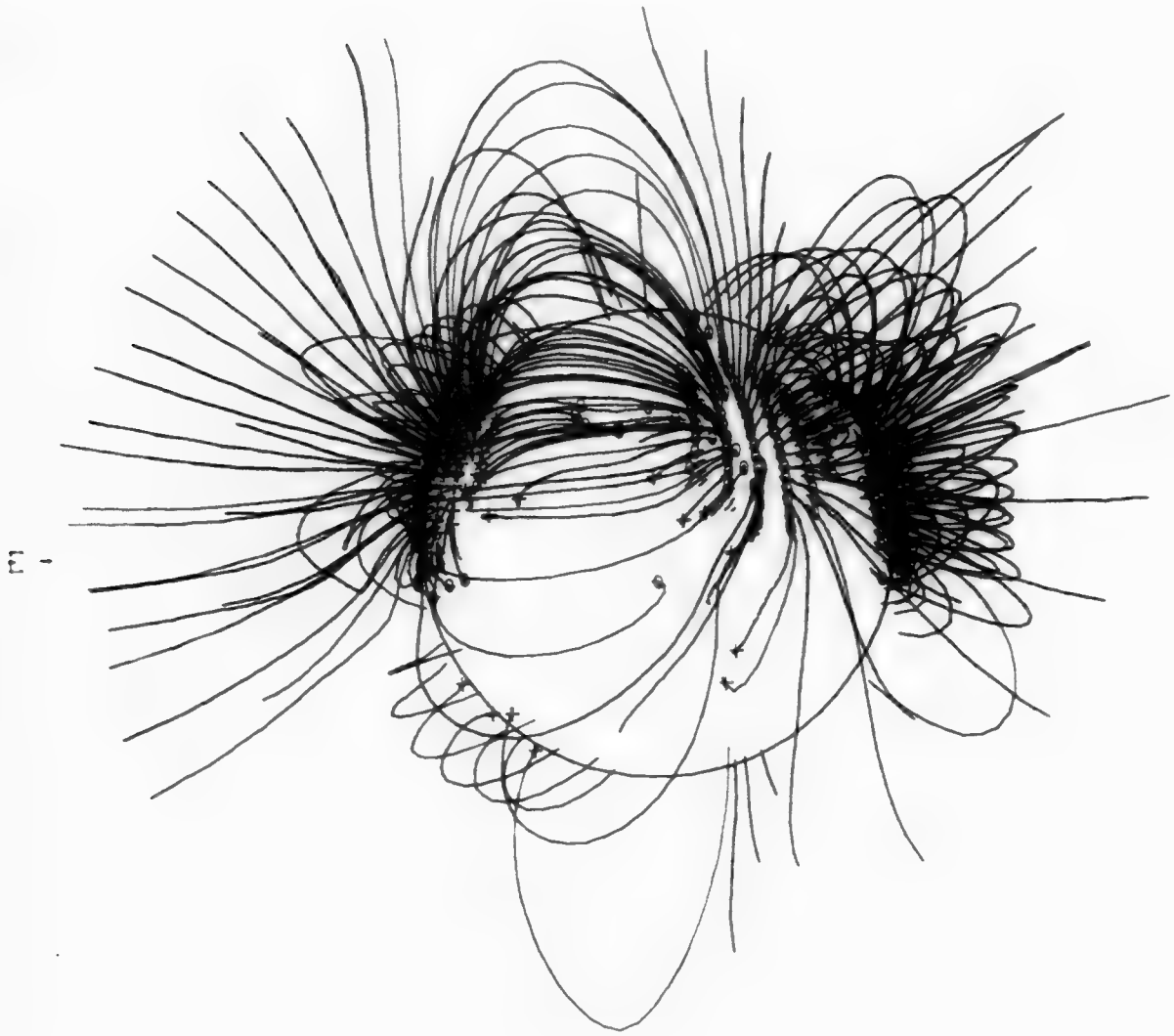
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



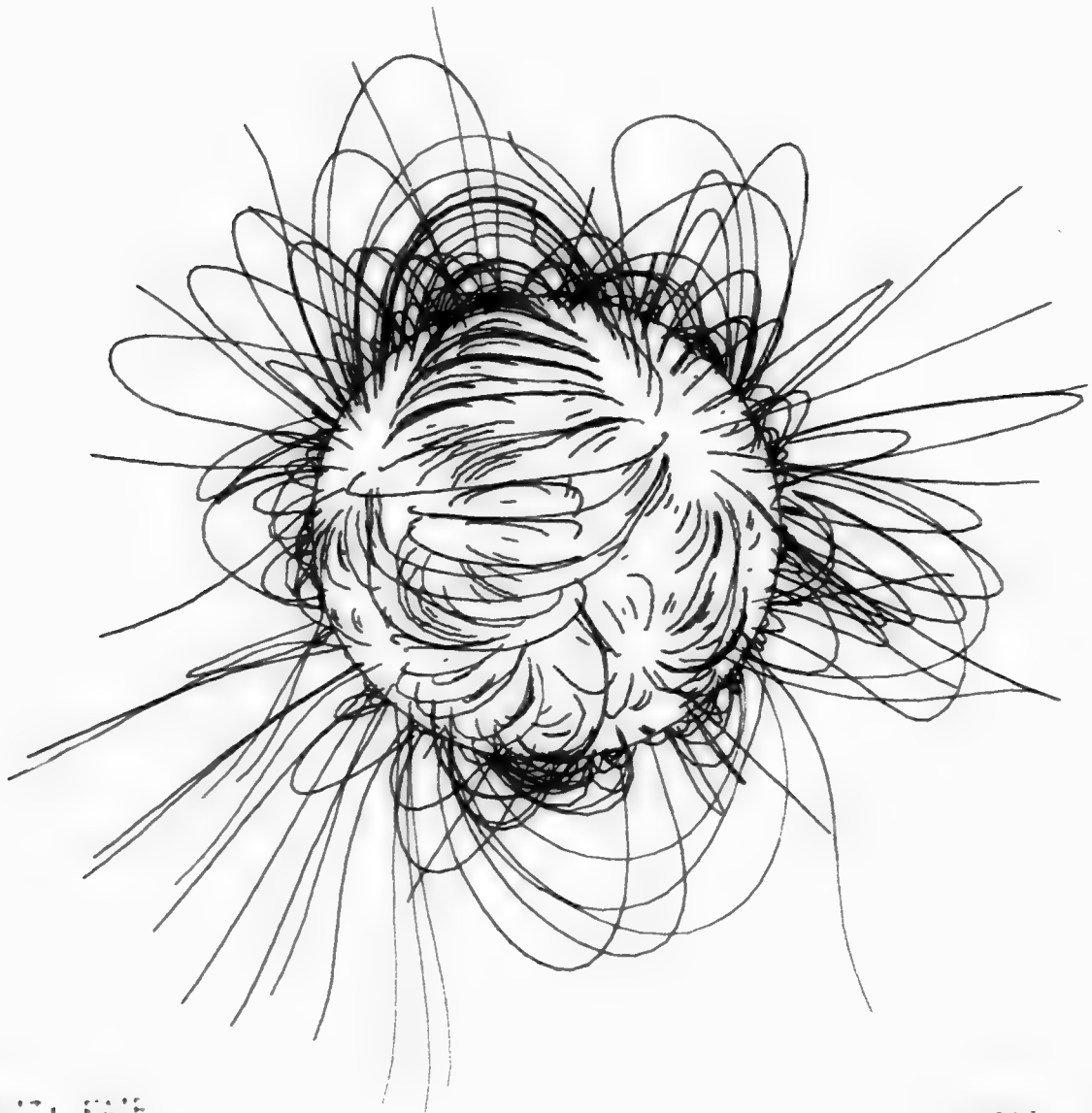
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



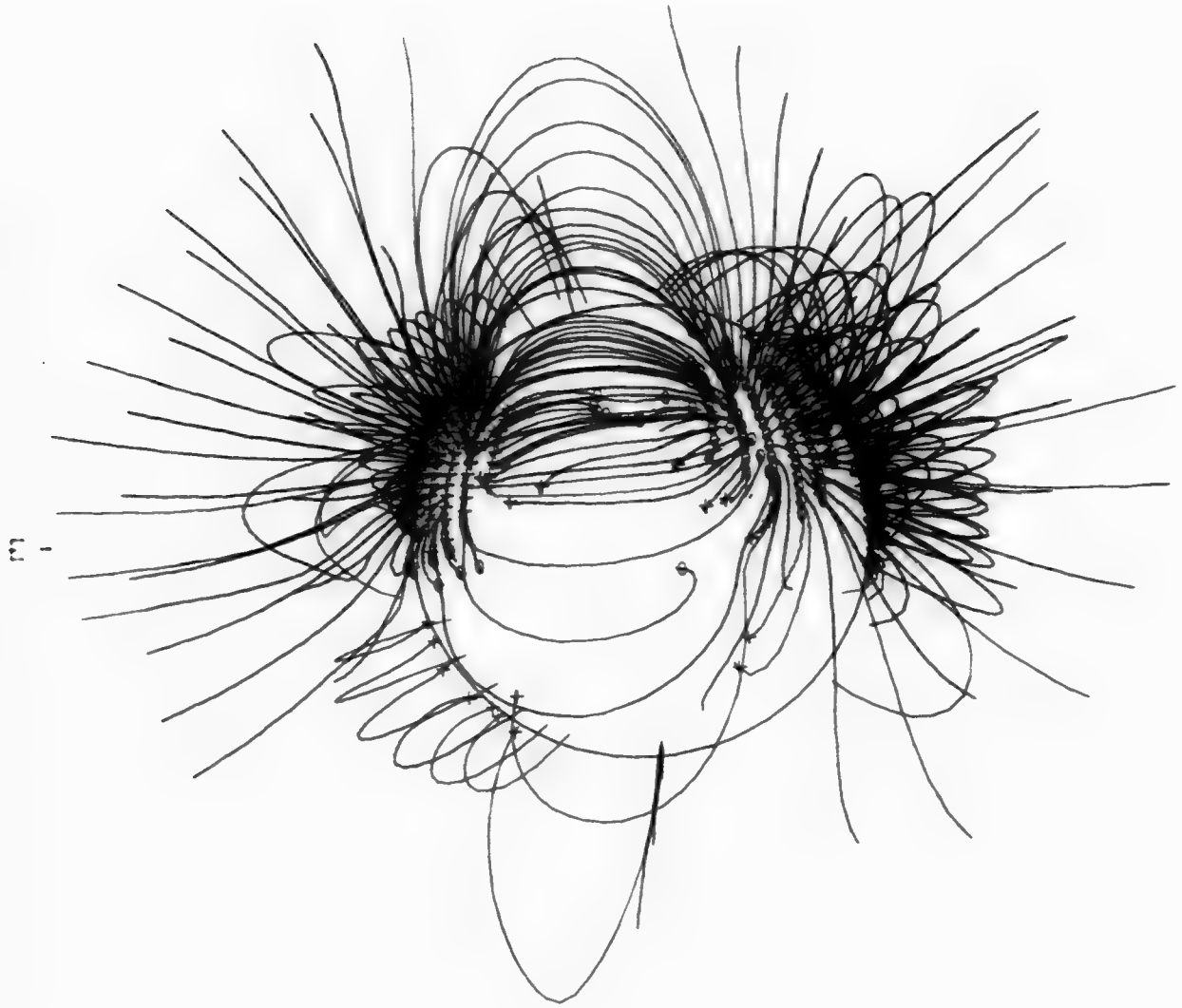
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



E -

- A

ALTA FAIR

FLUX DIRECT

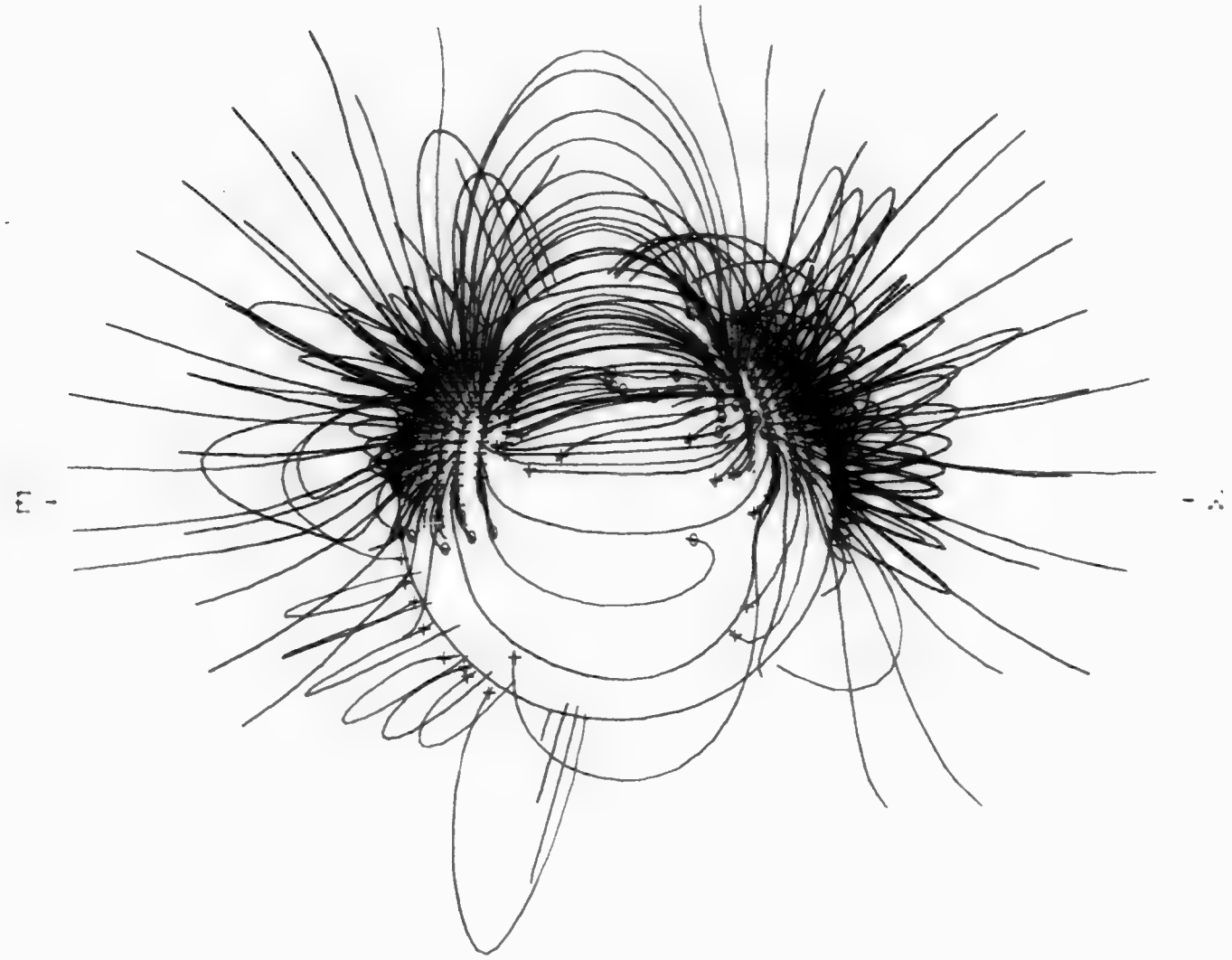
DATA ACCUM 1540.47

E.T. 1540 0.0 0°

23.6 APR 1969

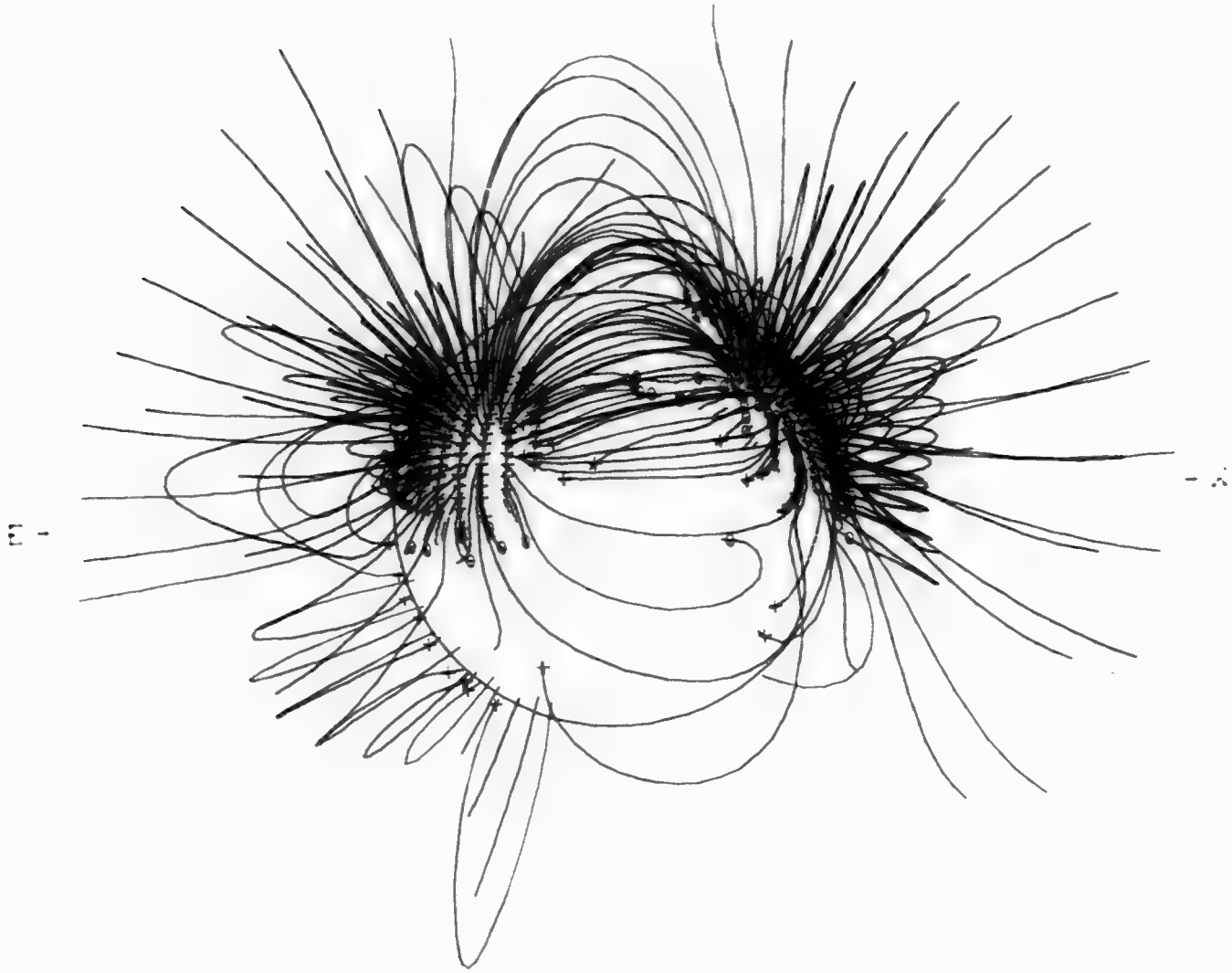
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



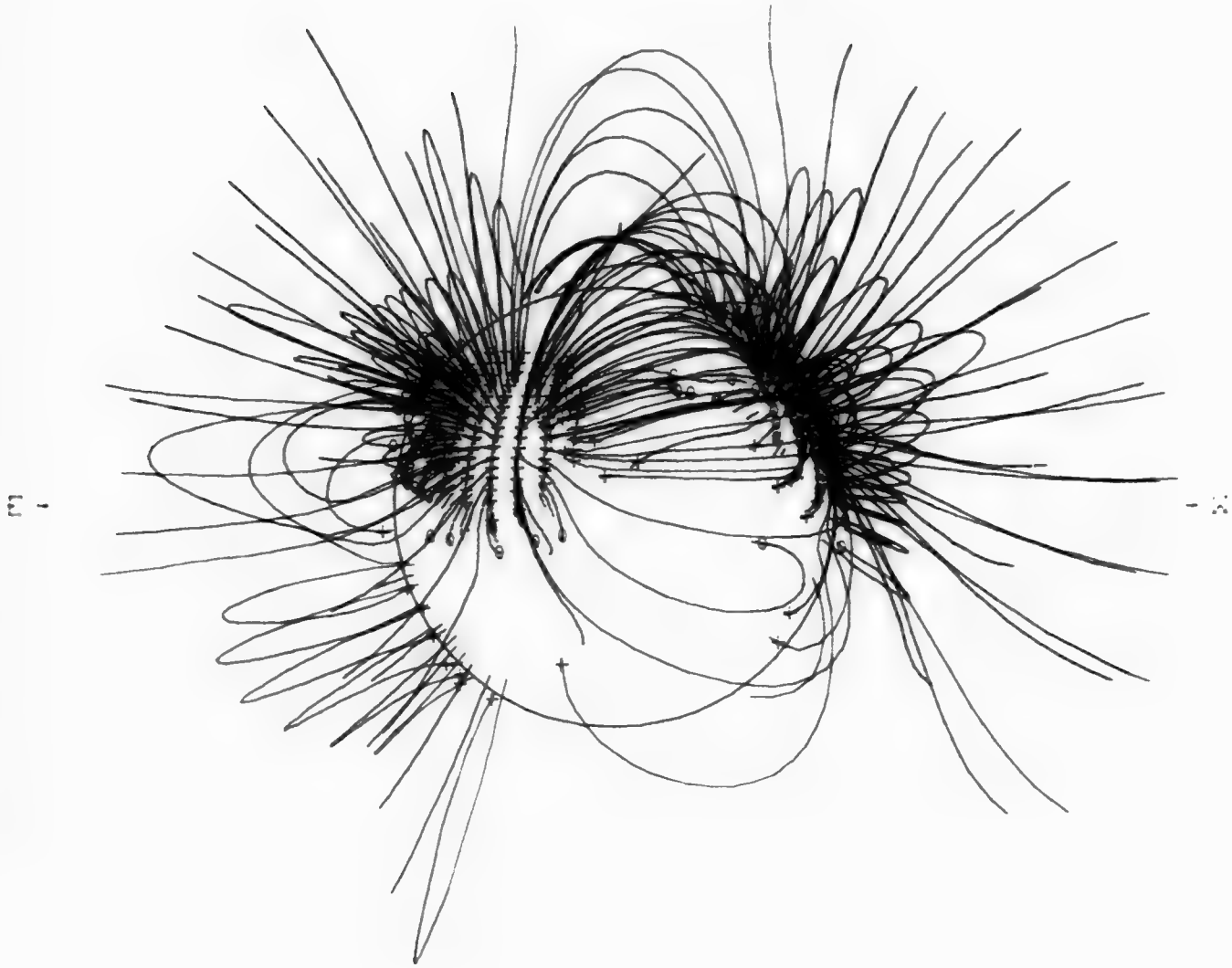
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

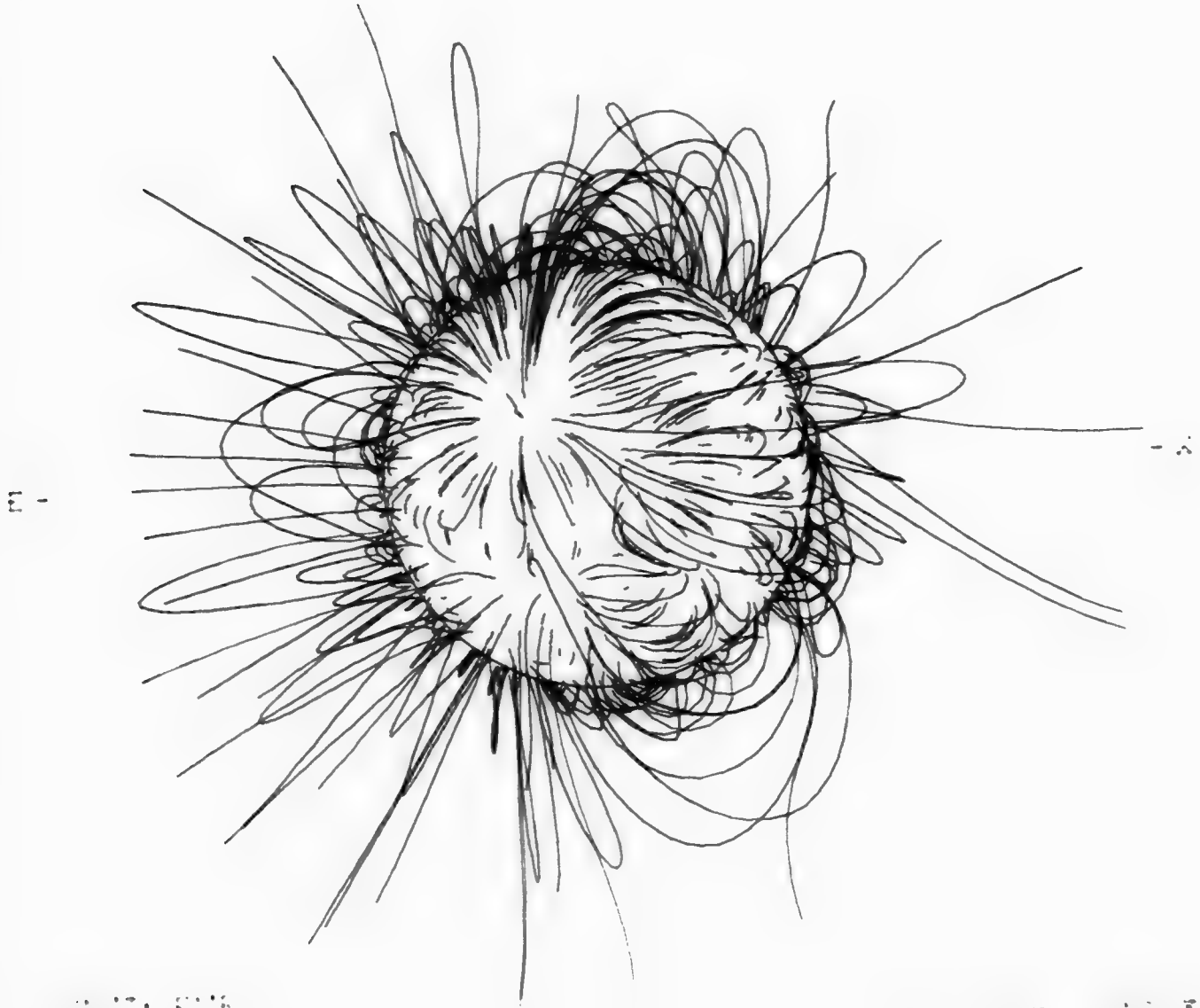


QUALITY FAIR

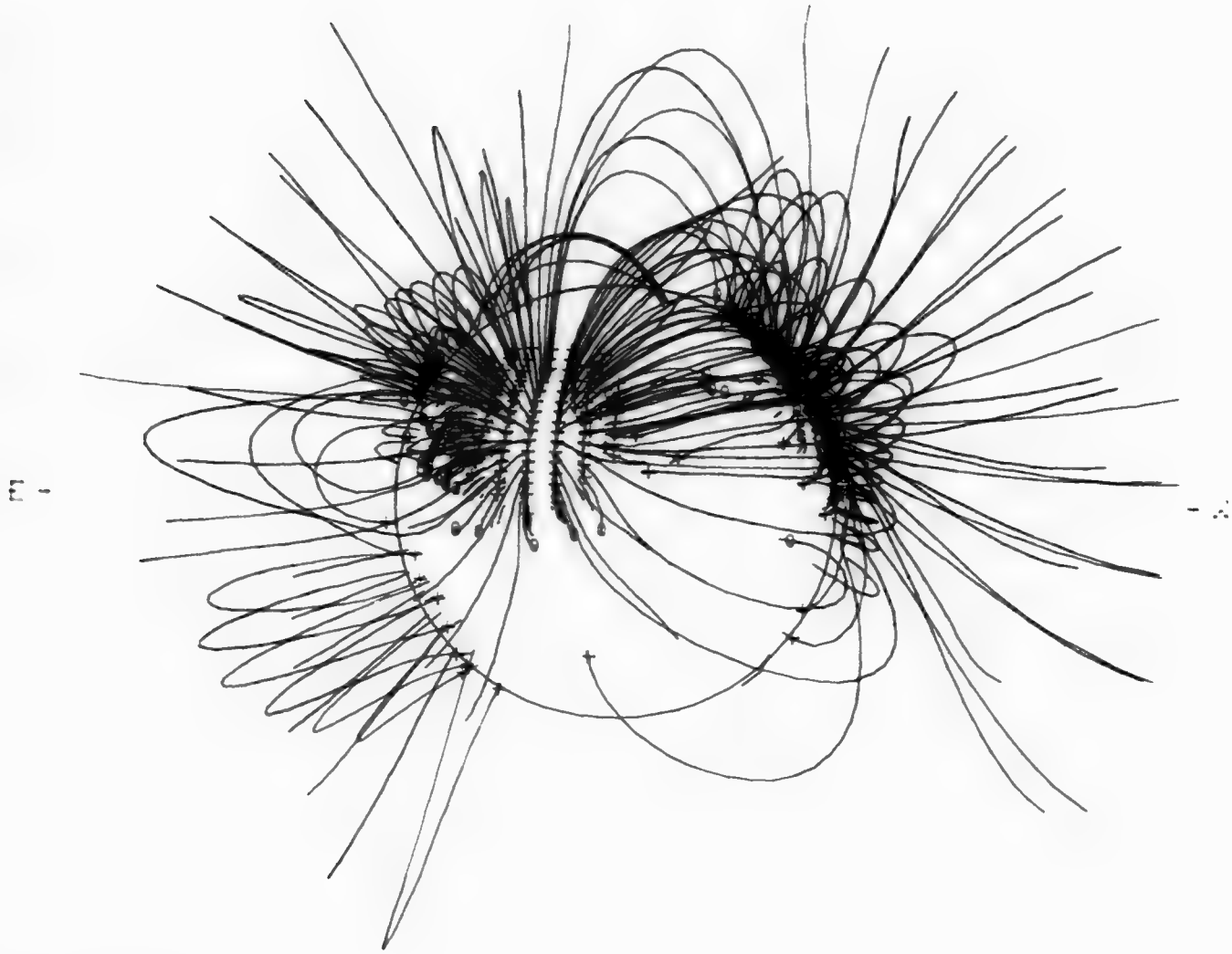
PLOTTED DIRECT

DATA MAPPED FROM

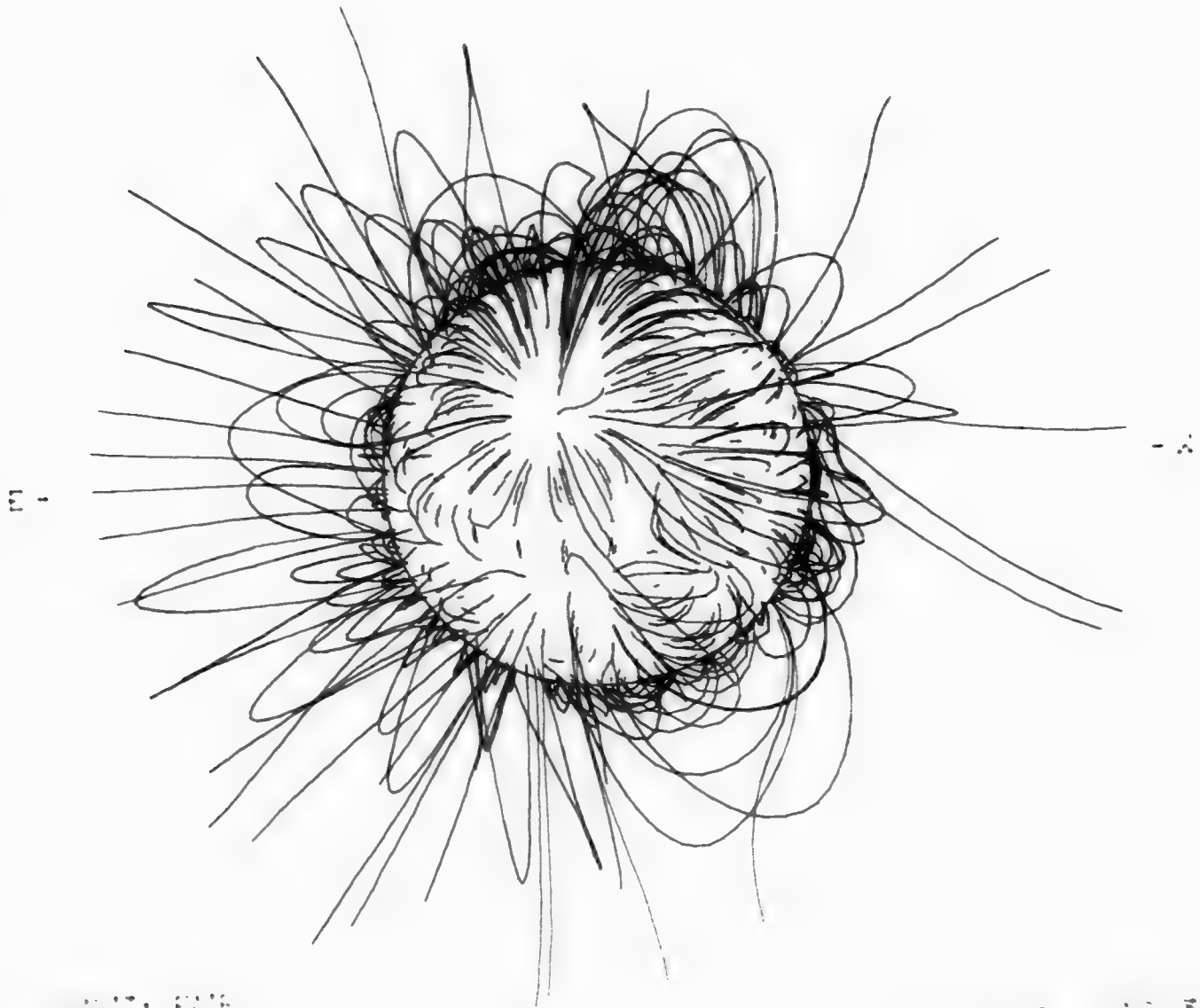
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



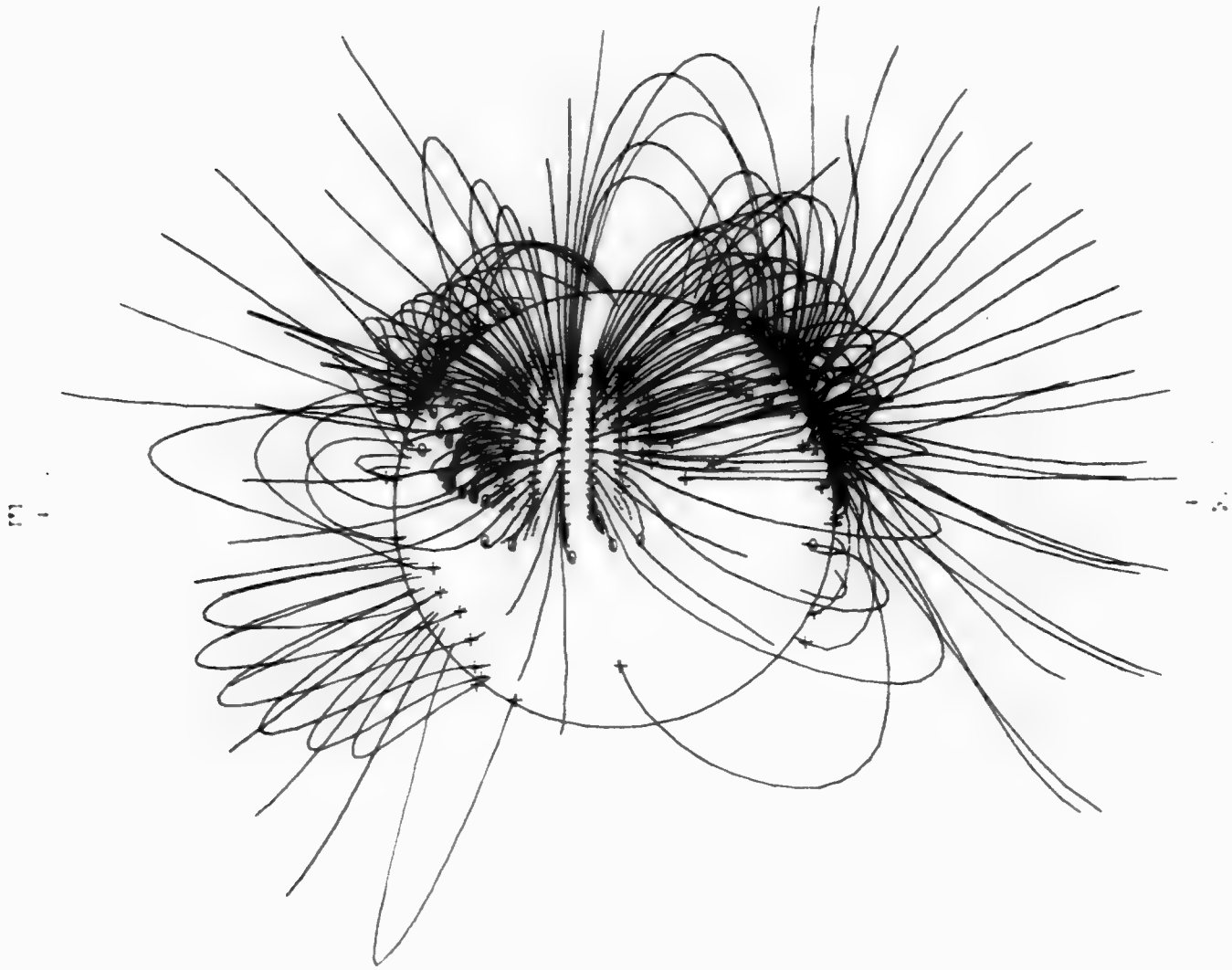
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



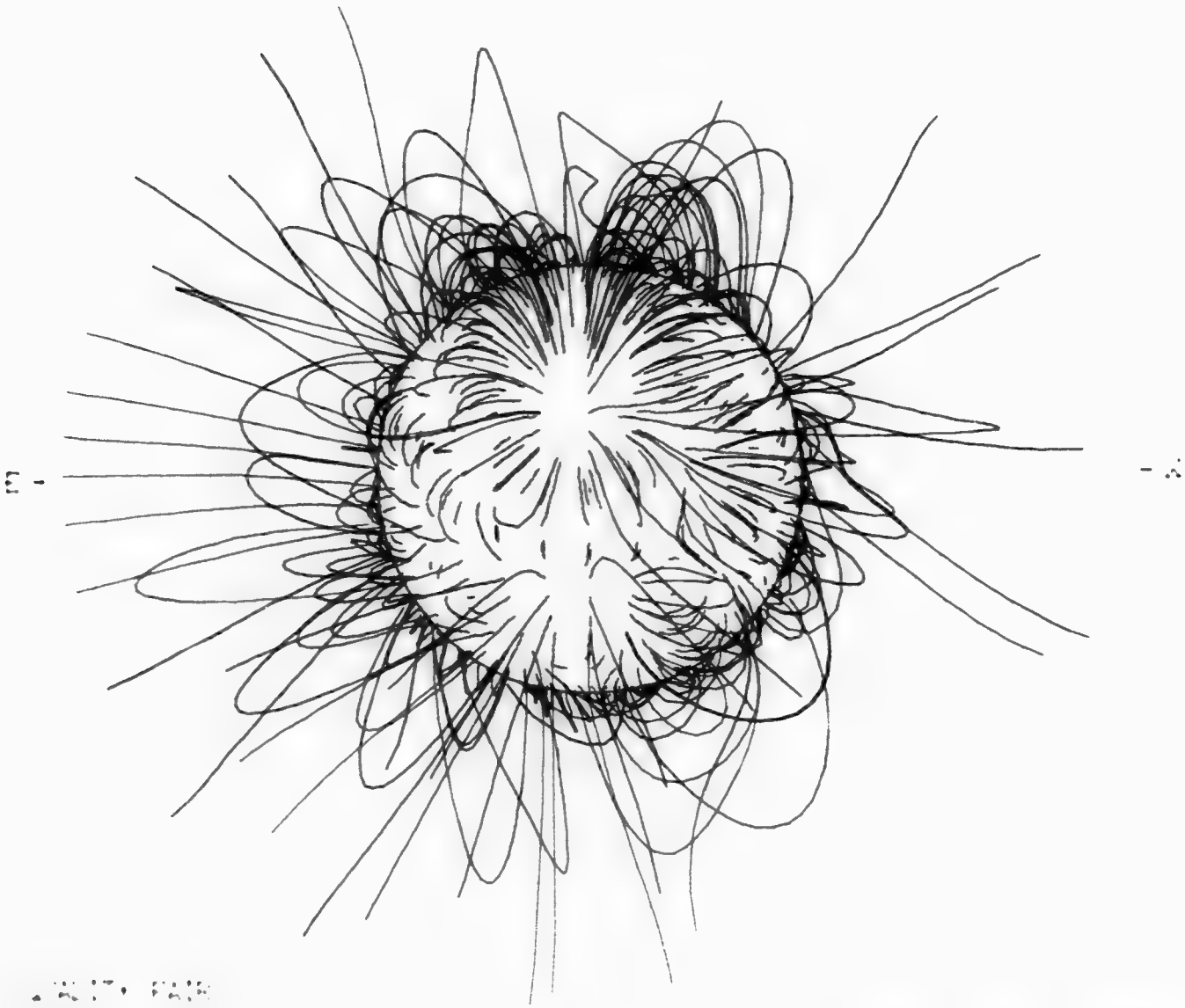
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



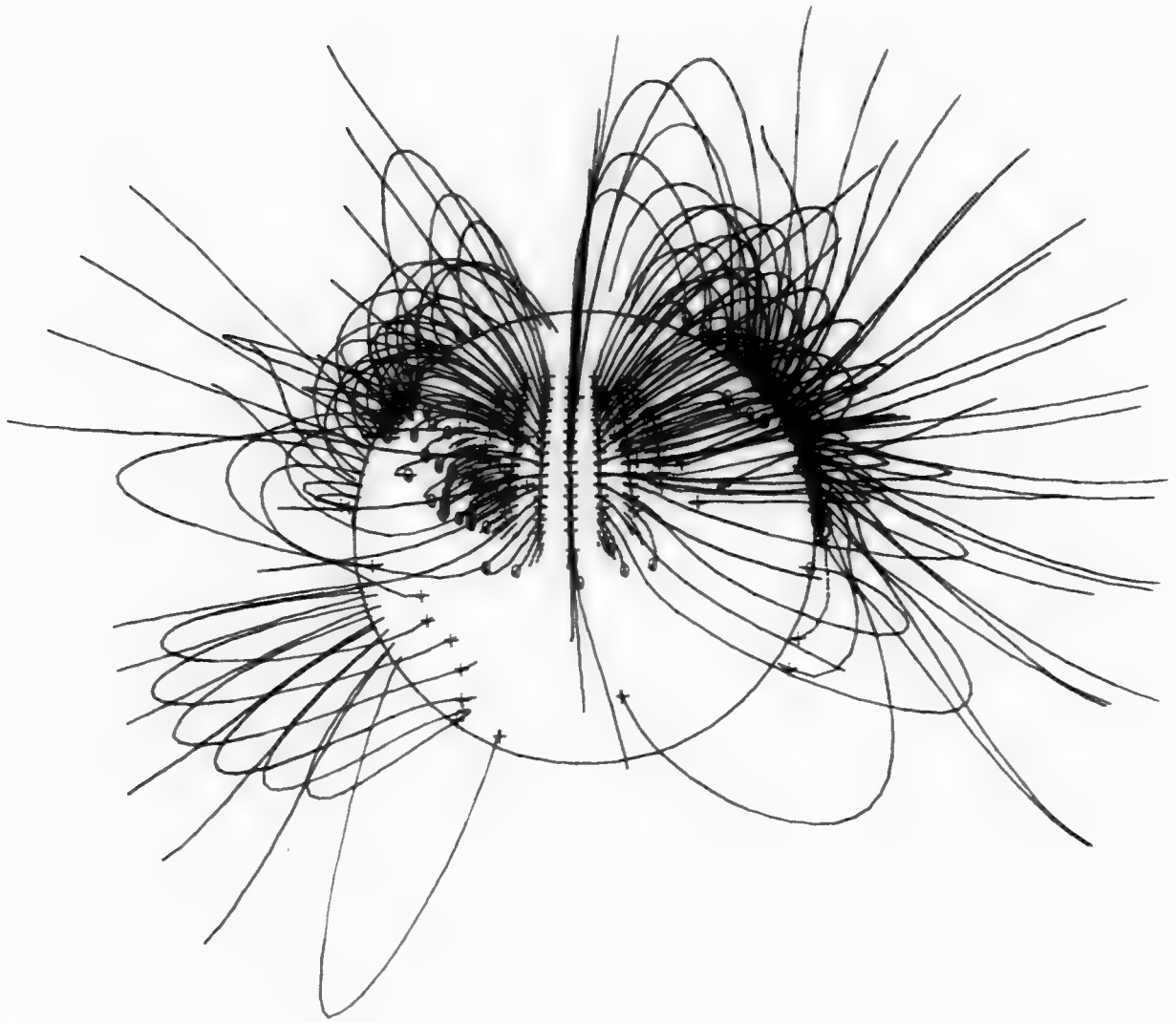
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



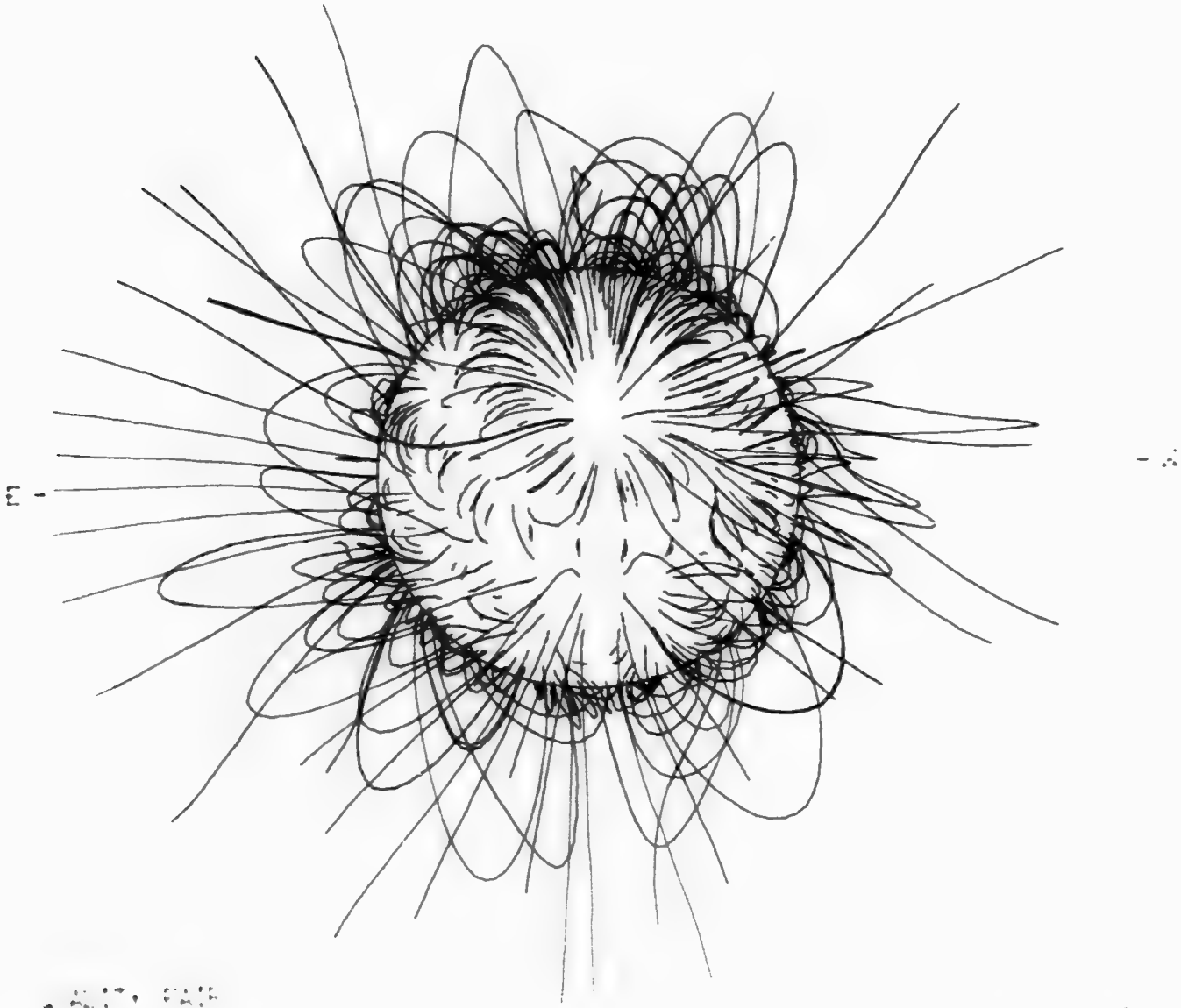
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



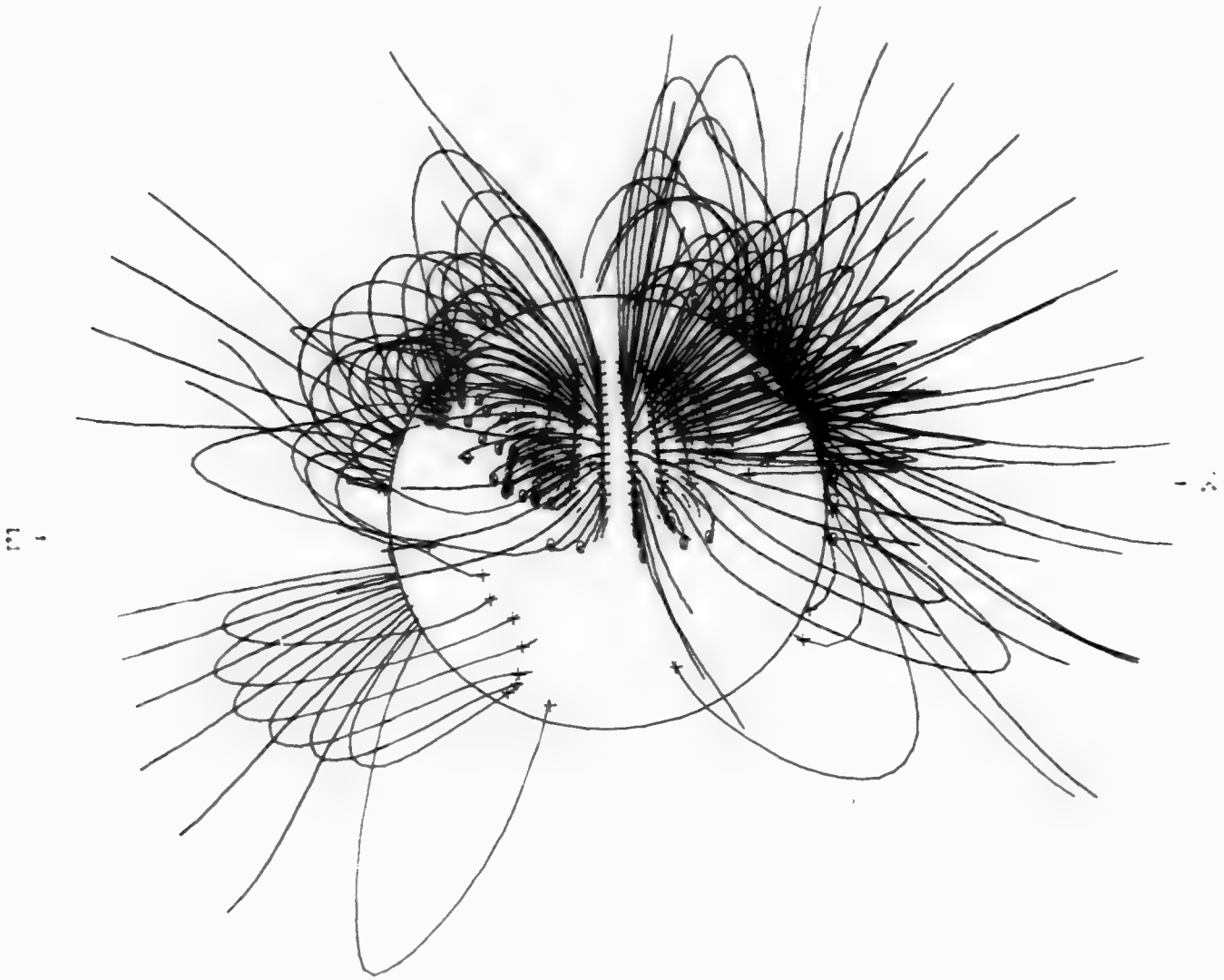
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



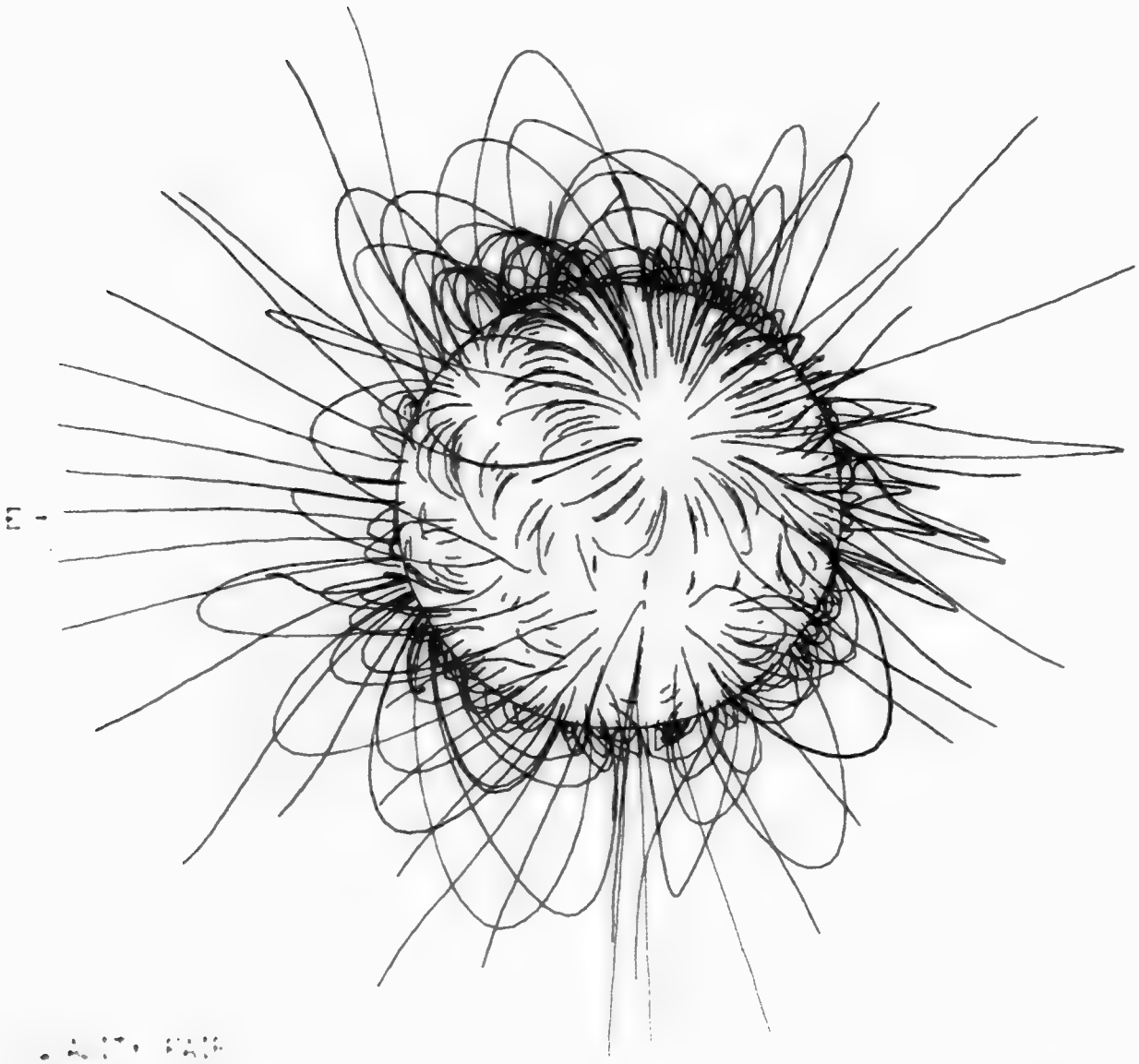
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



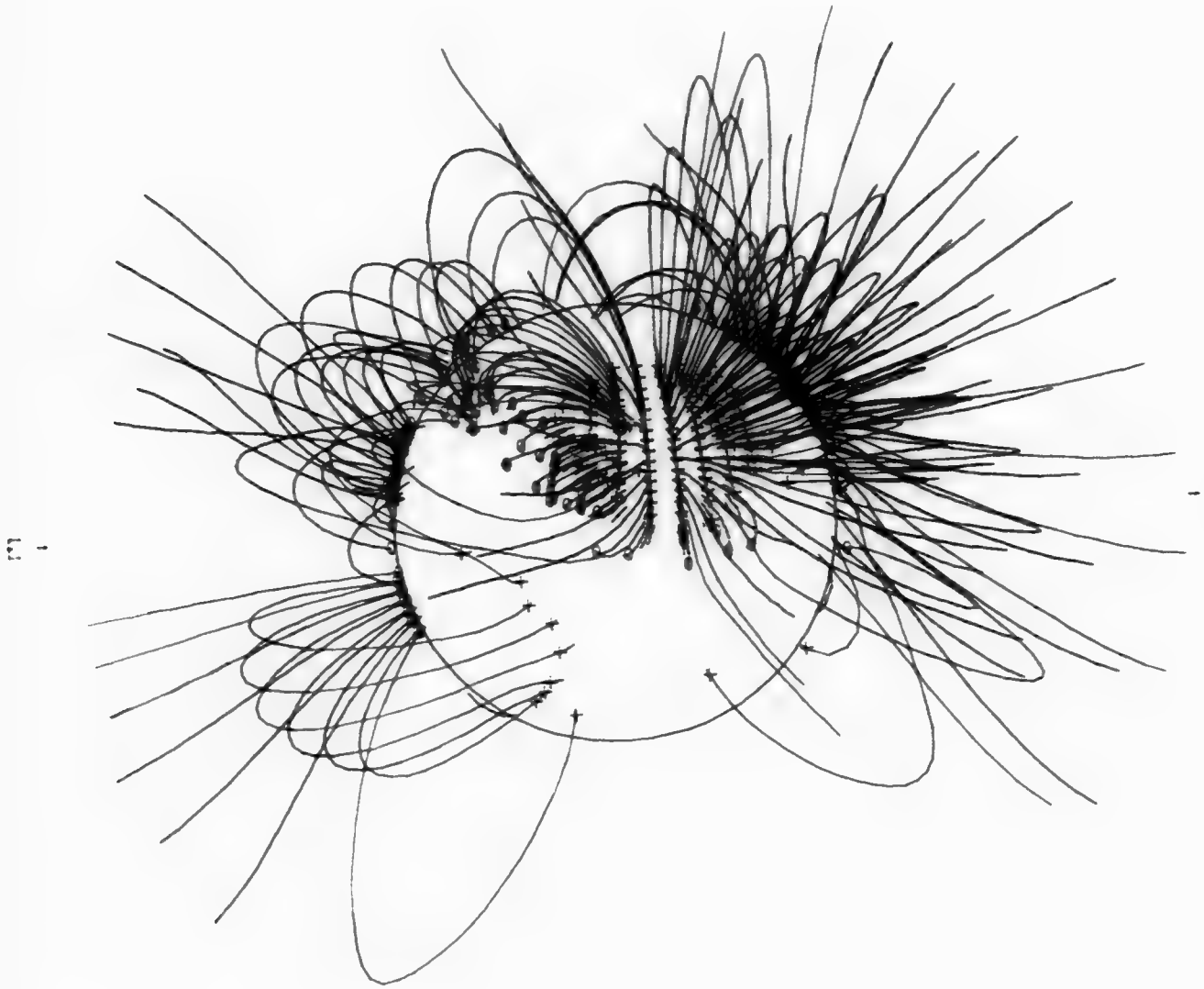
QUALITY FAIR
RULES DIRECT
DATA ARRIVED [illegible]

ROT. [illegible]
28.9 APR [illegible]

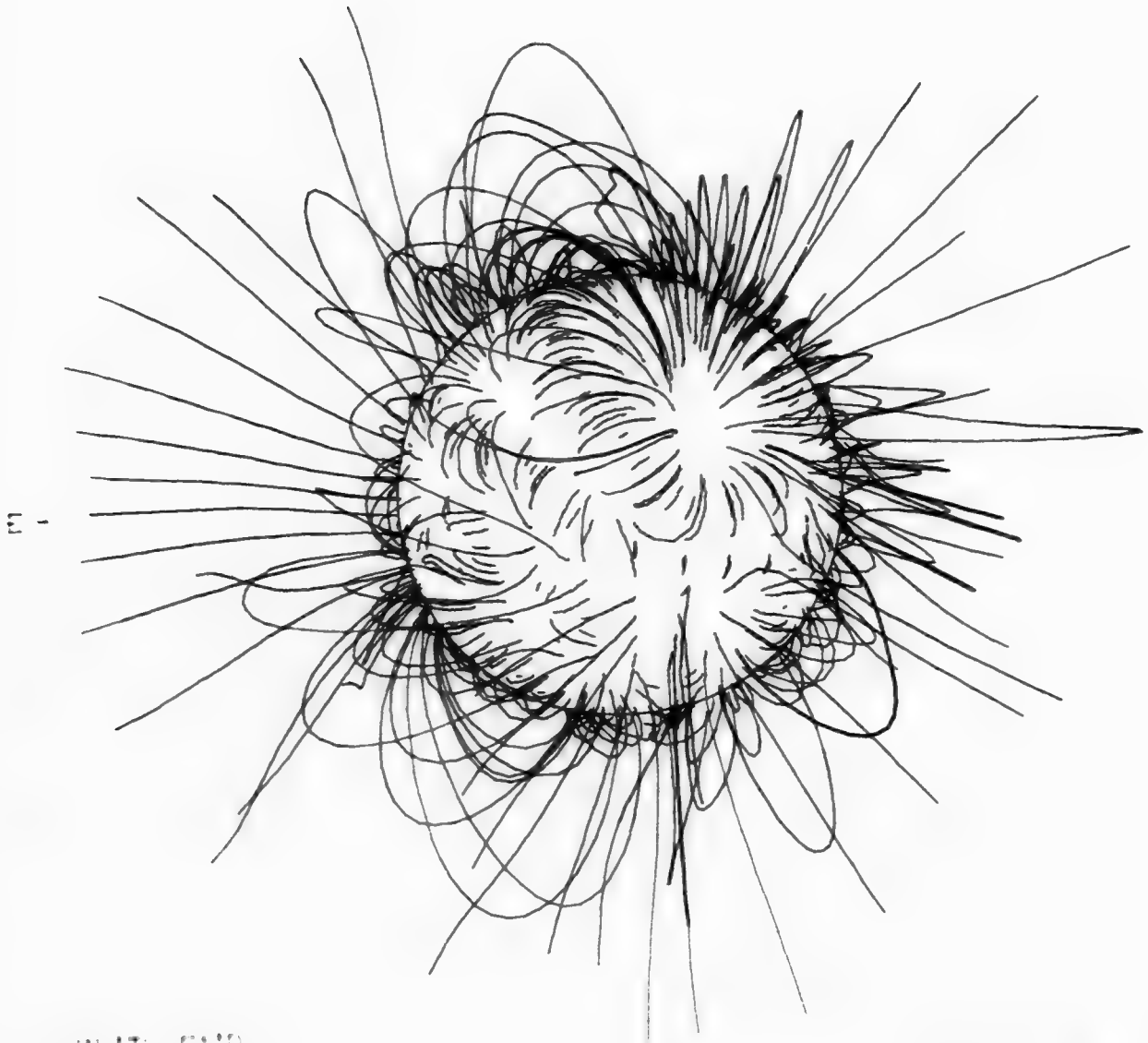
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



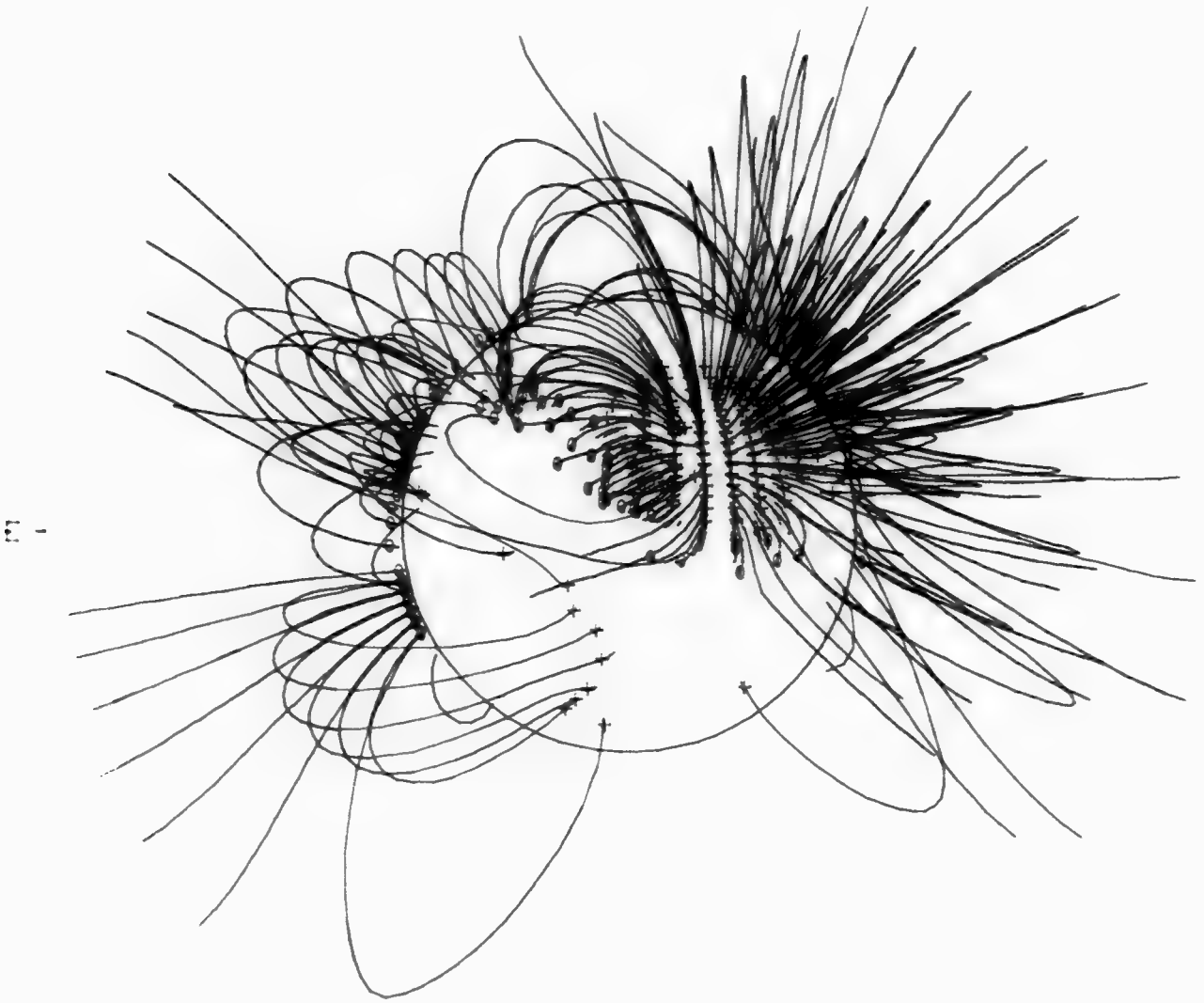
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



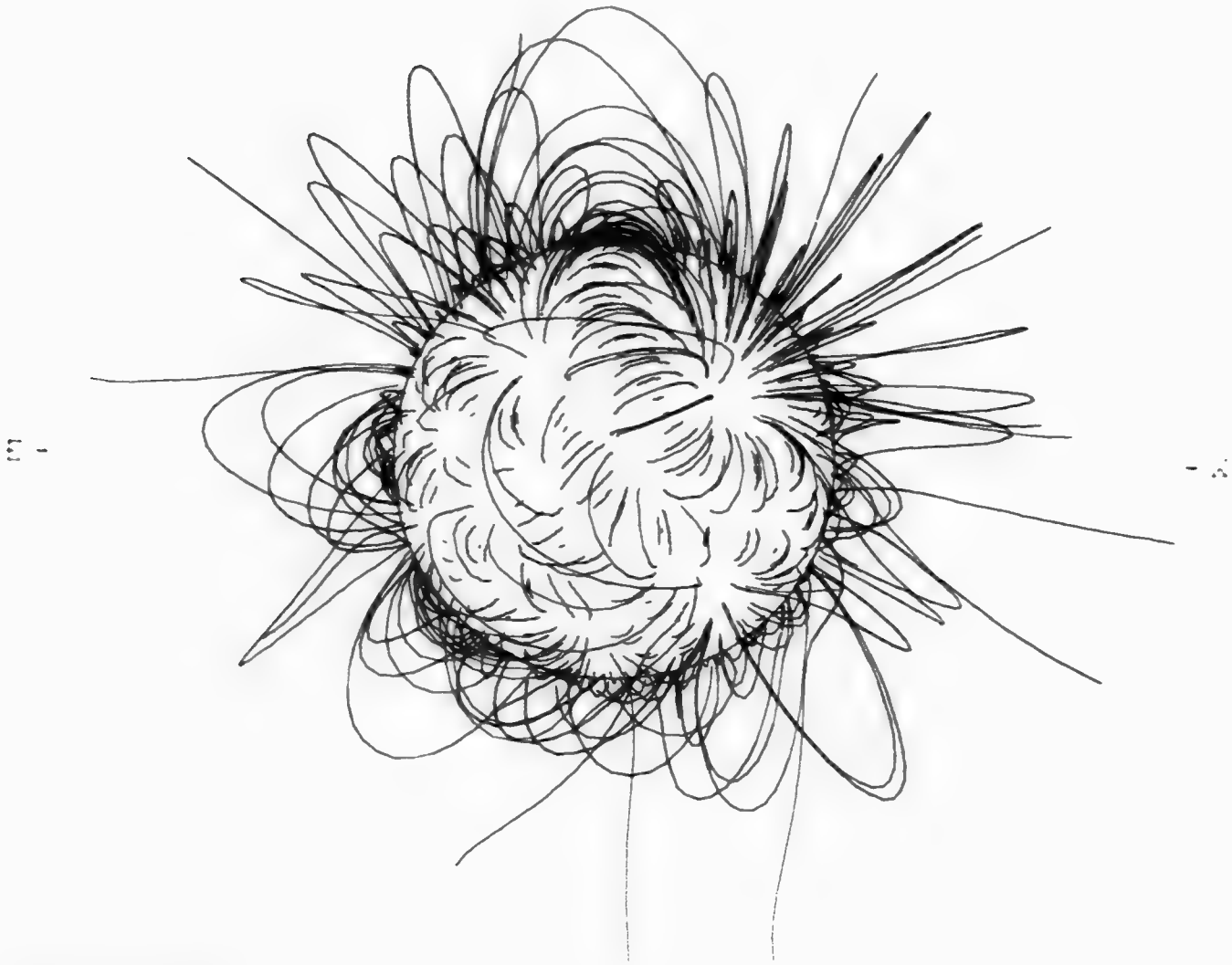
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



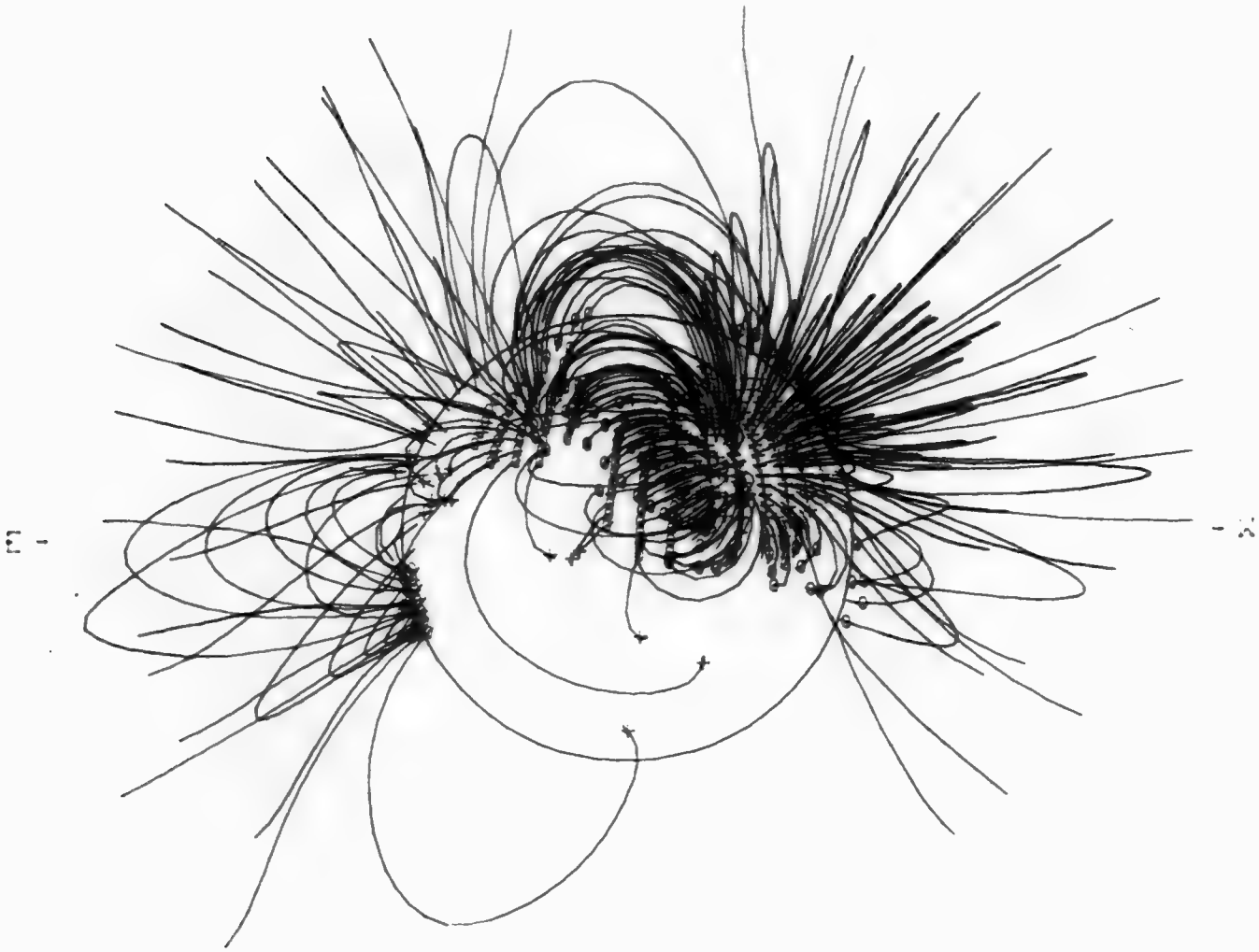
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

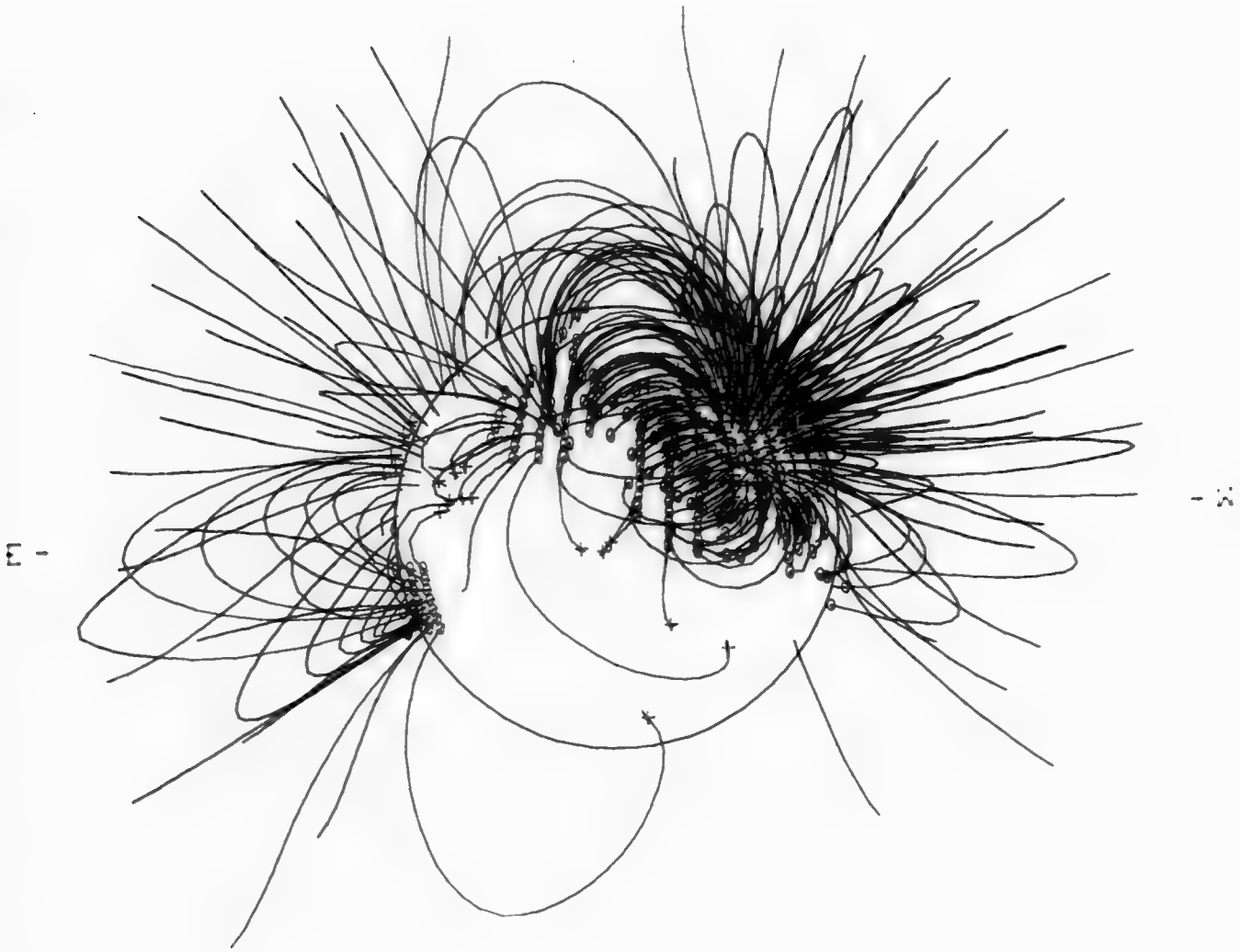


HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

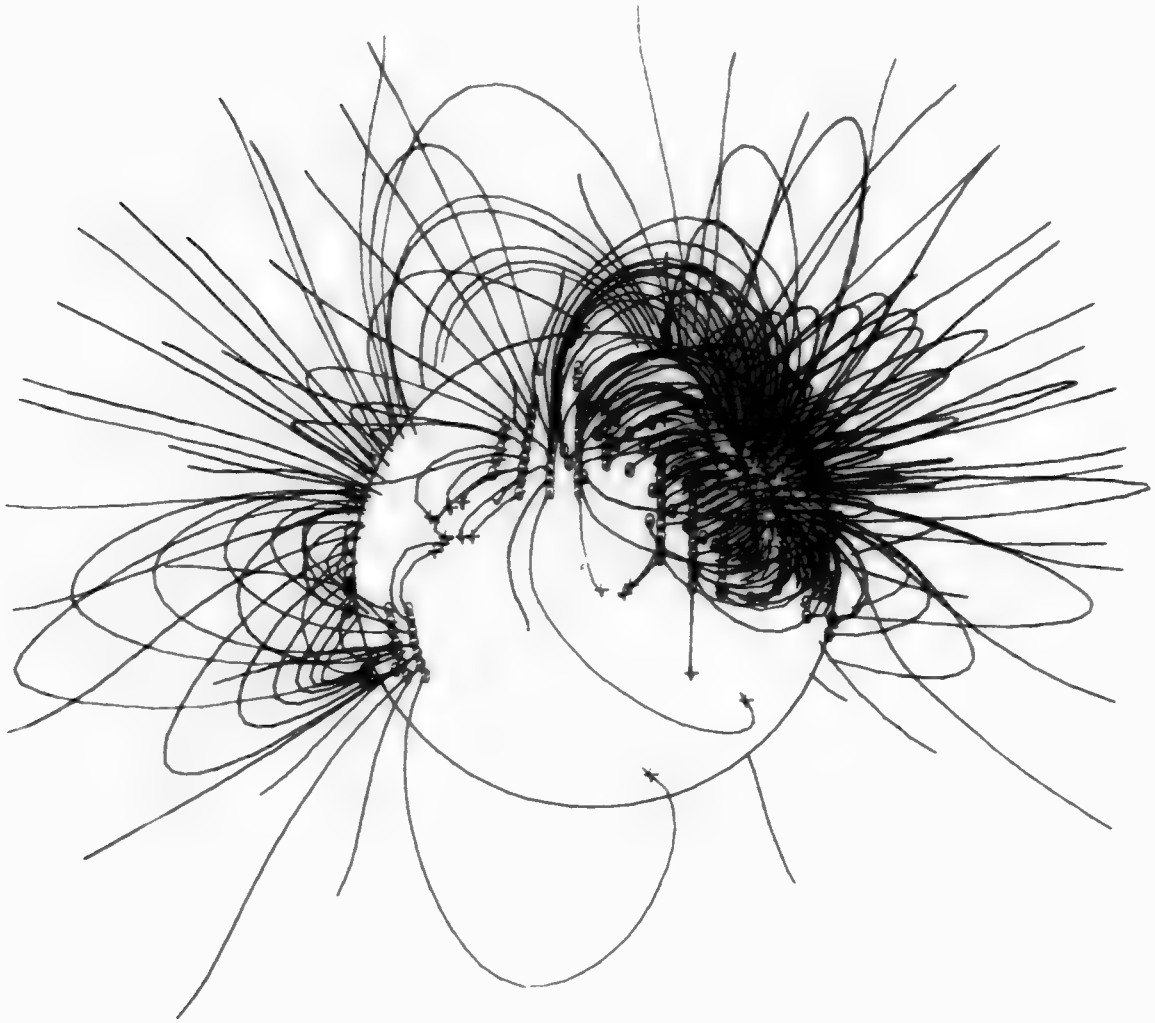
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



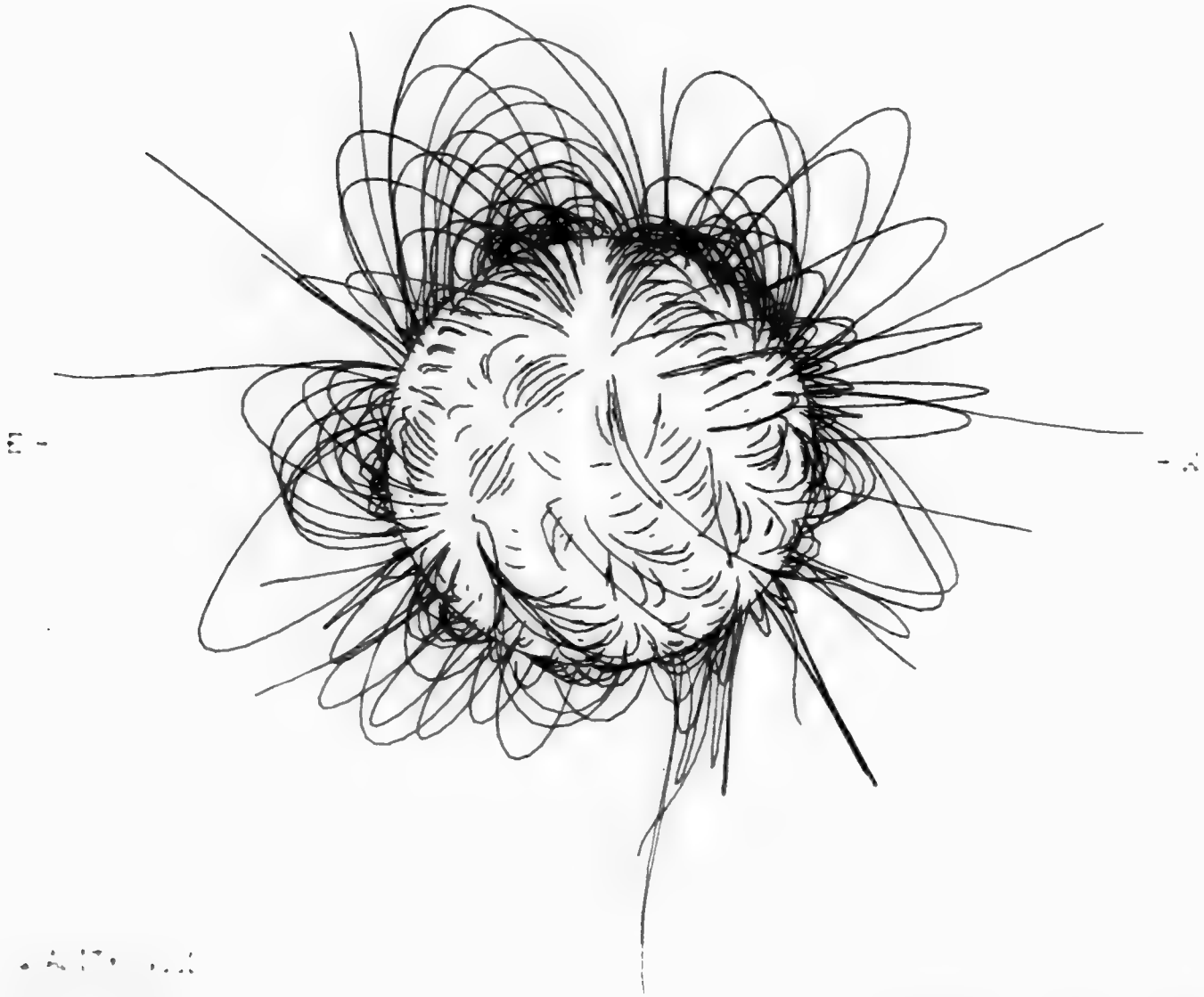
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N

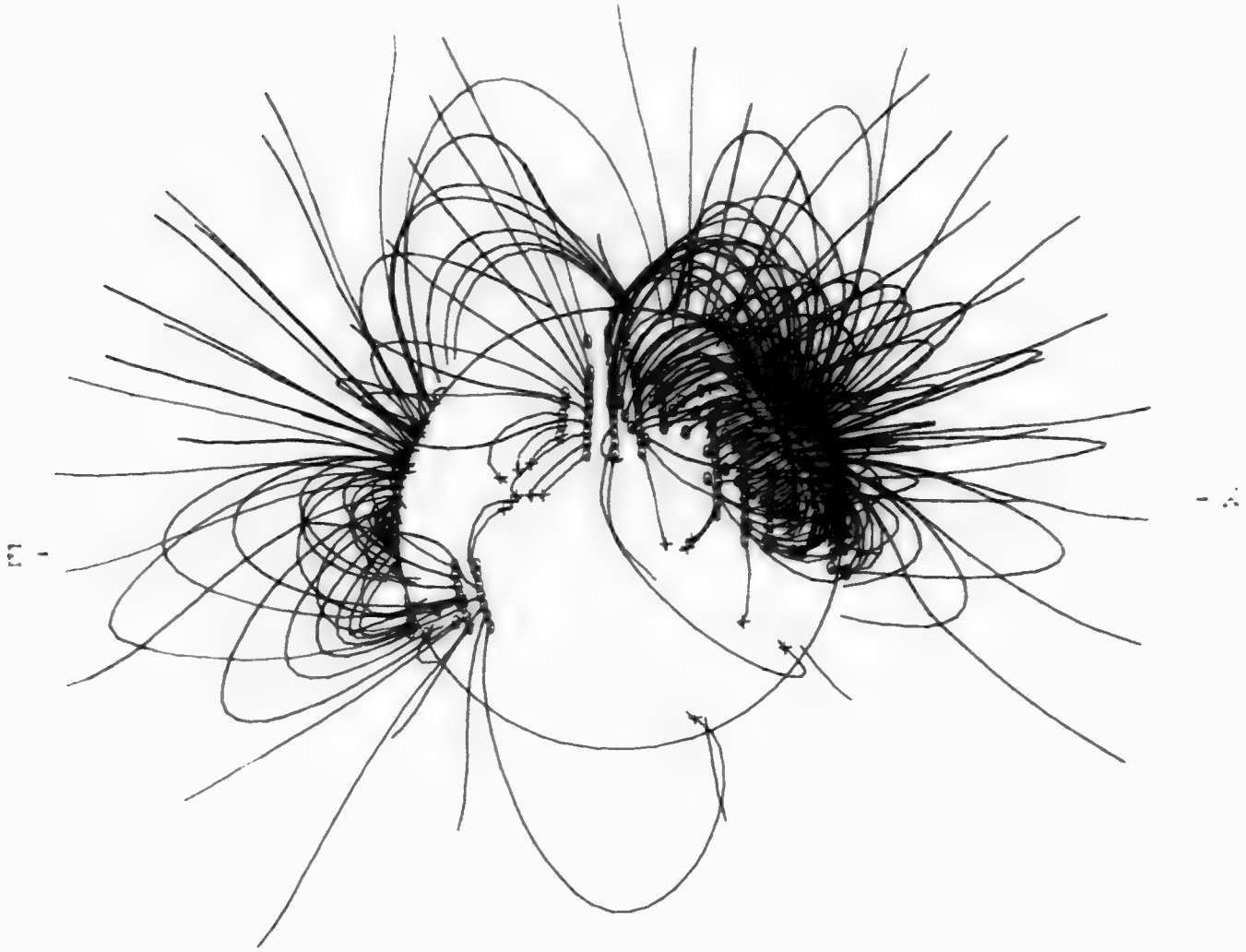
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



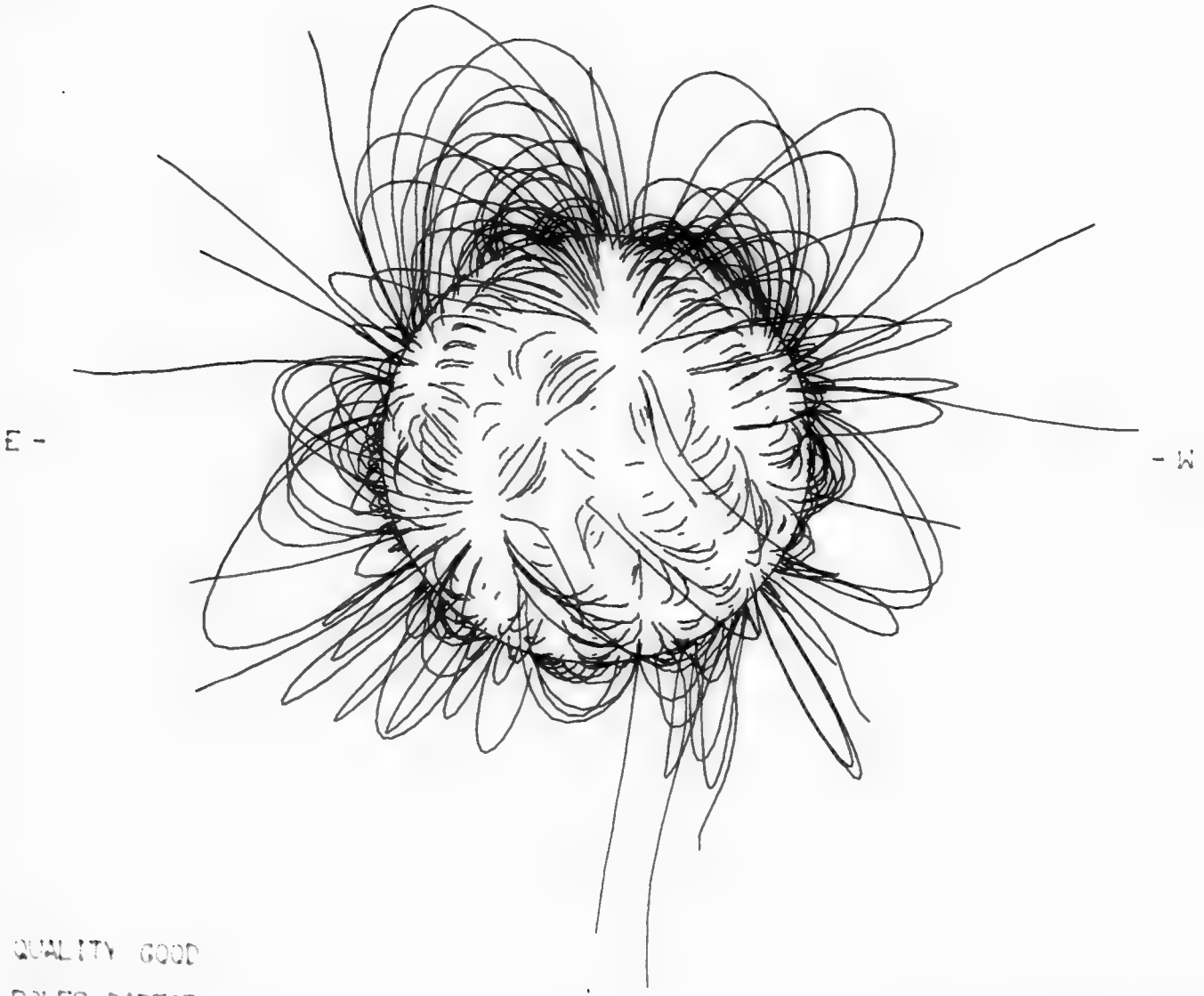
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



QUALITY GOOD

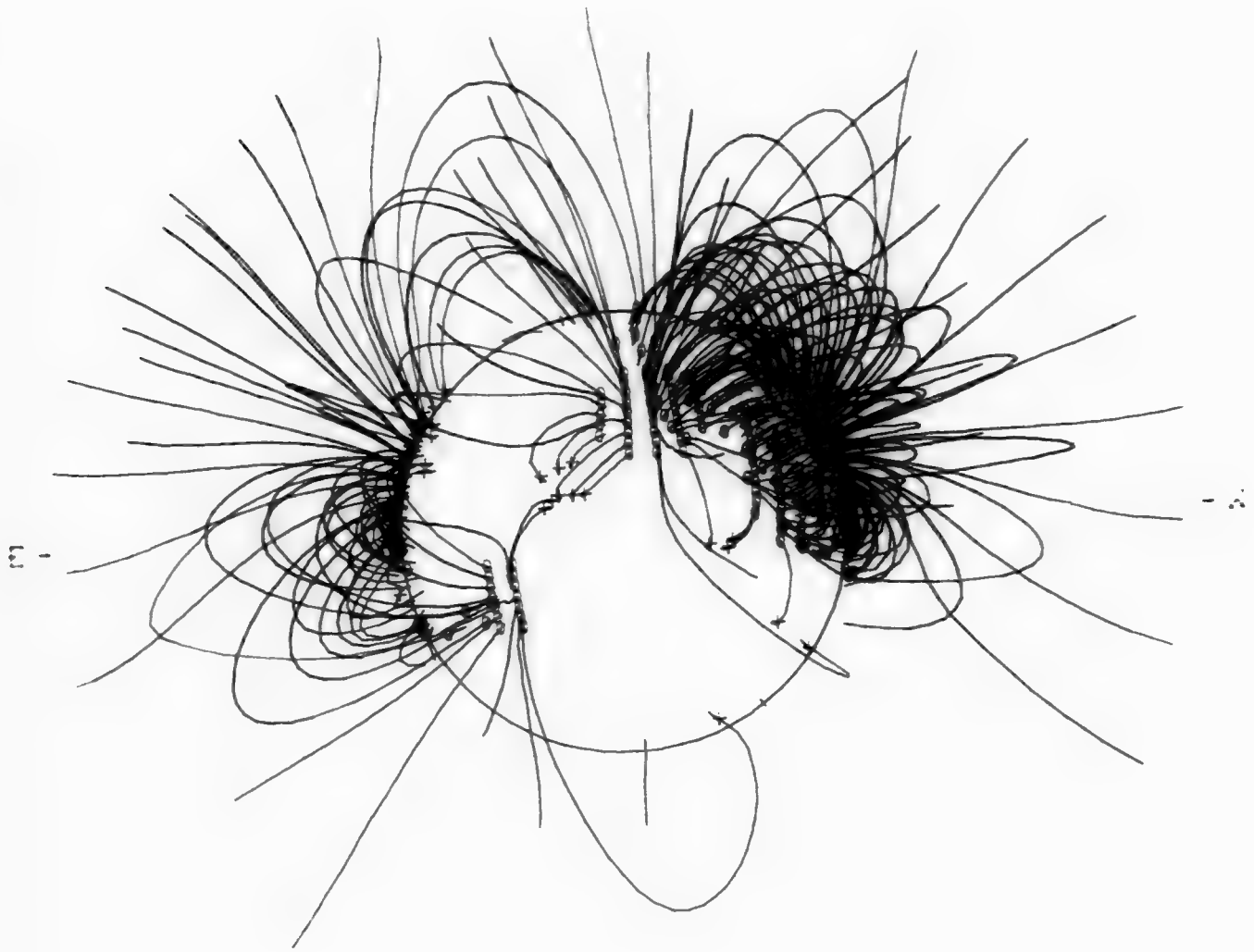
POLES DIRECT

DATA WINDOW 1547.00

ROT. 1547 LONG. 220°

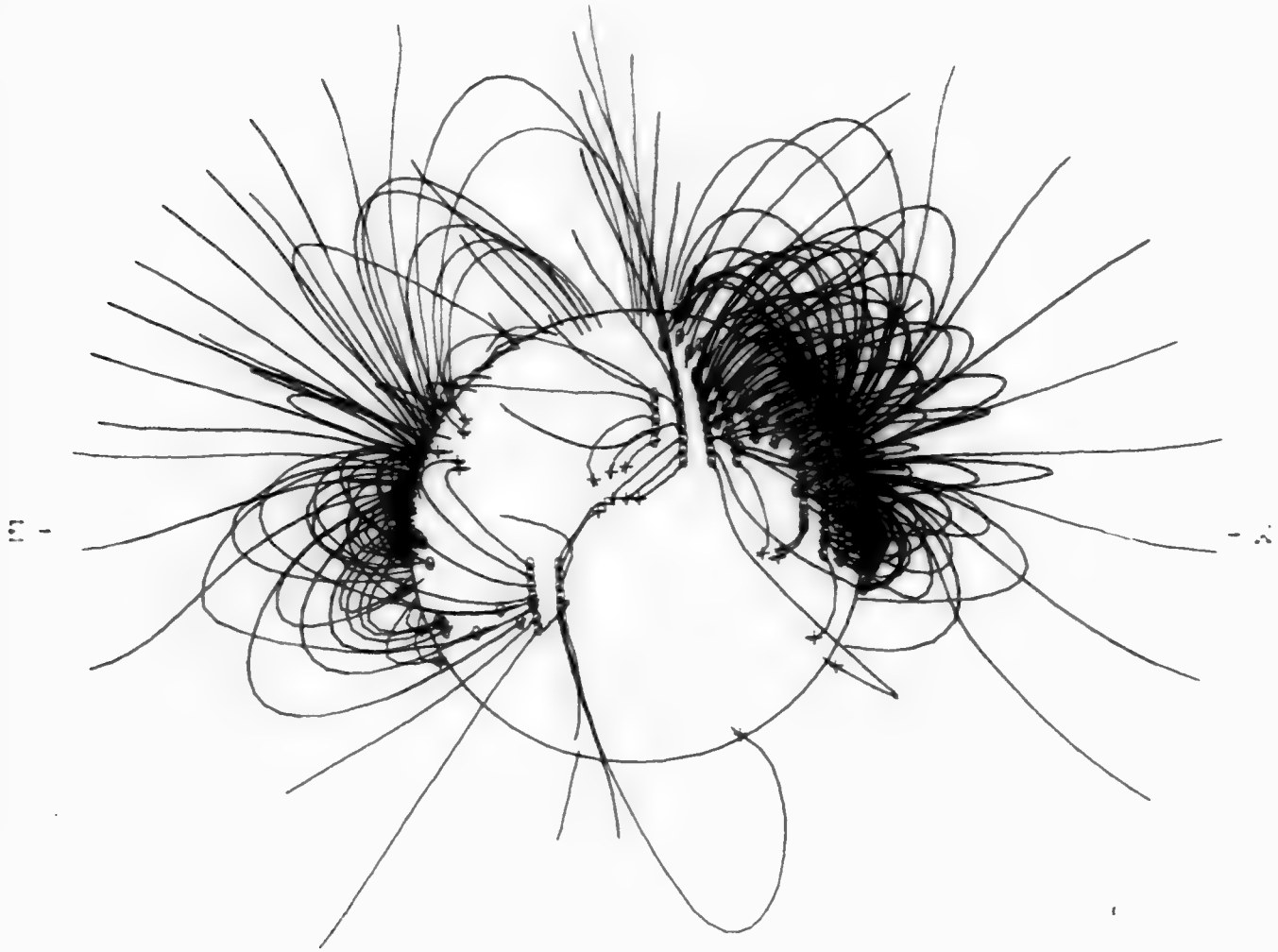
4.2 MAY 1969

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



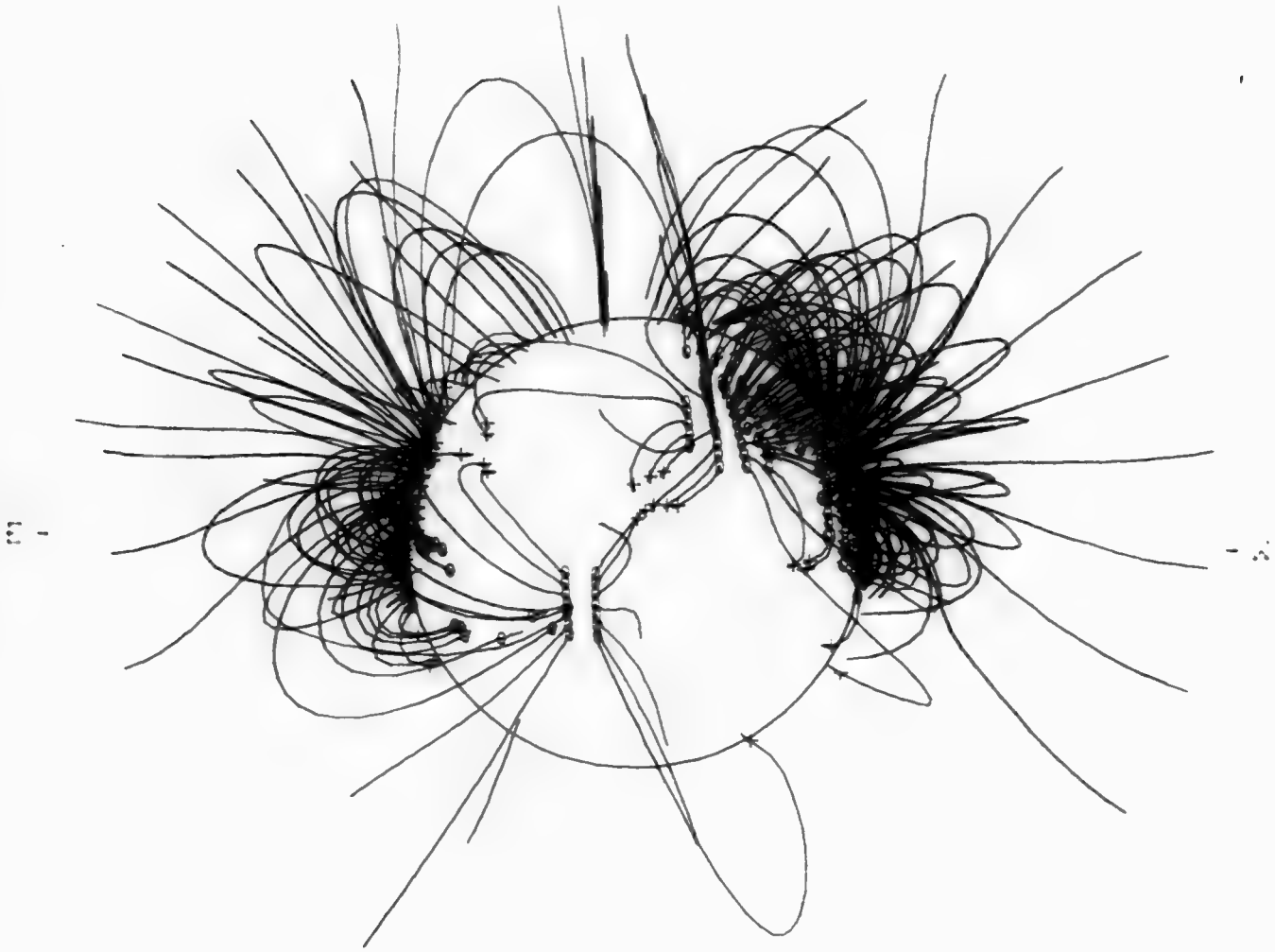
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



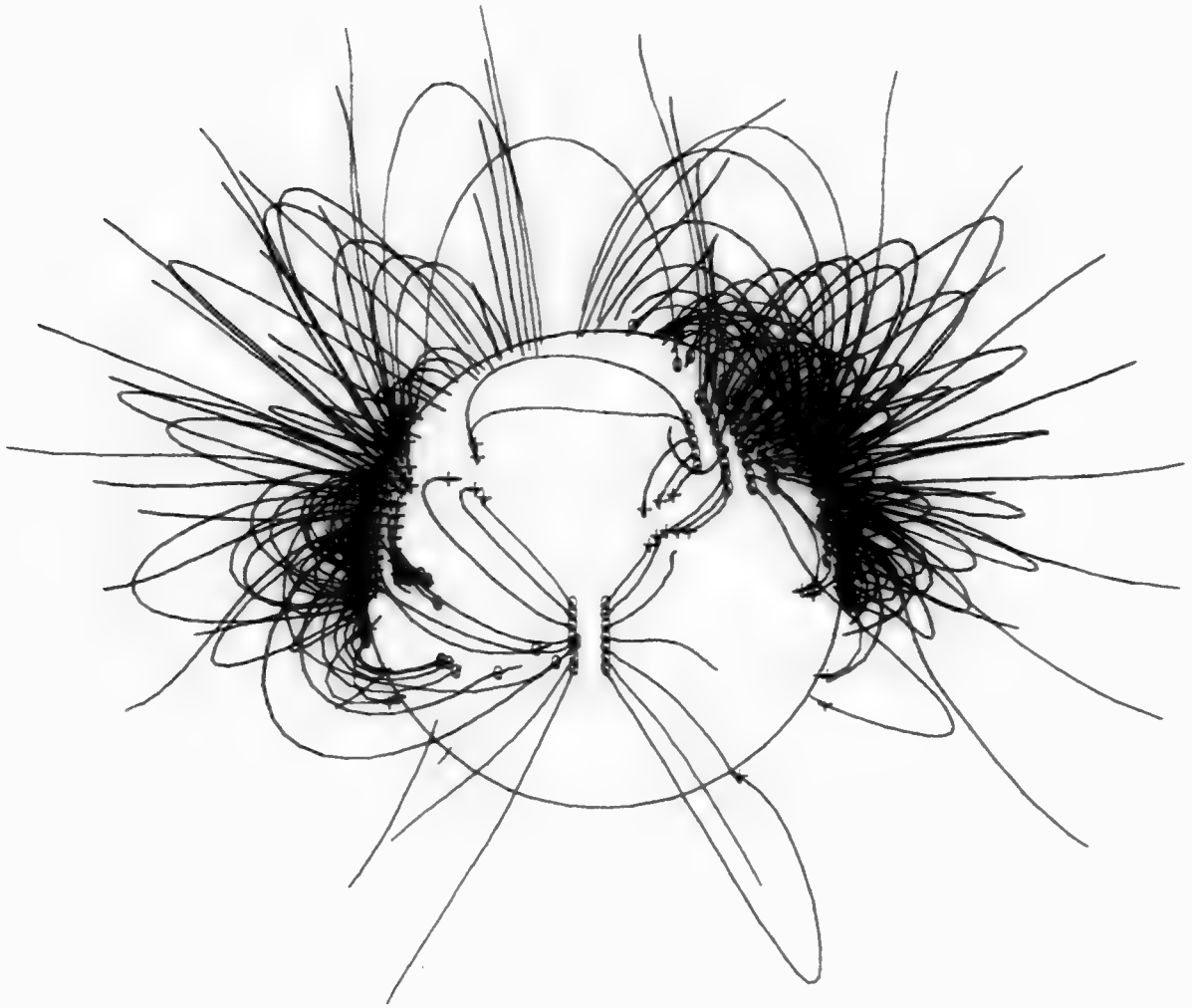
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

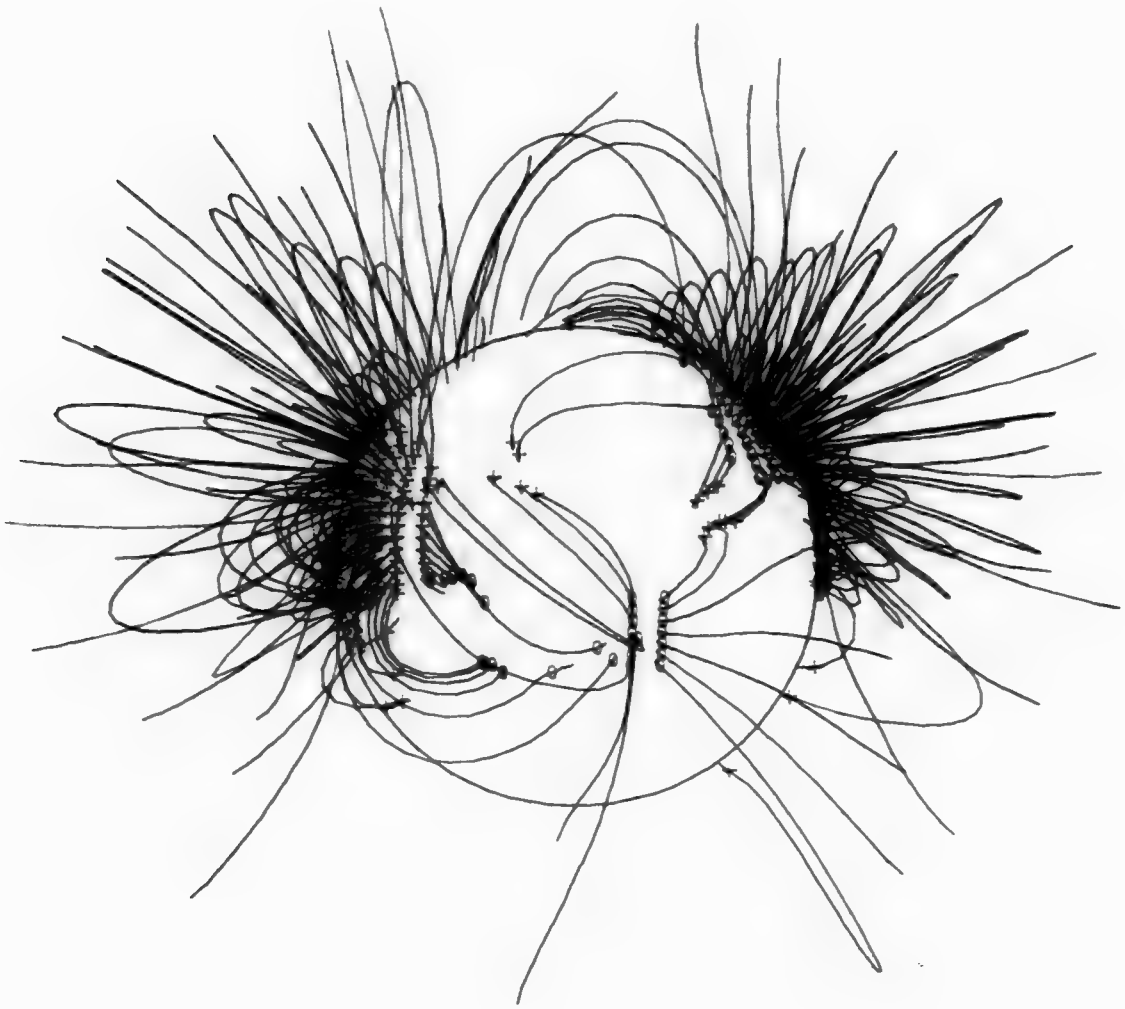


HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

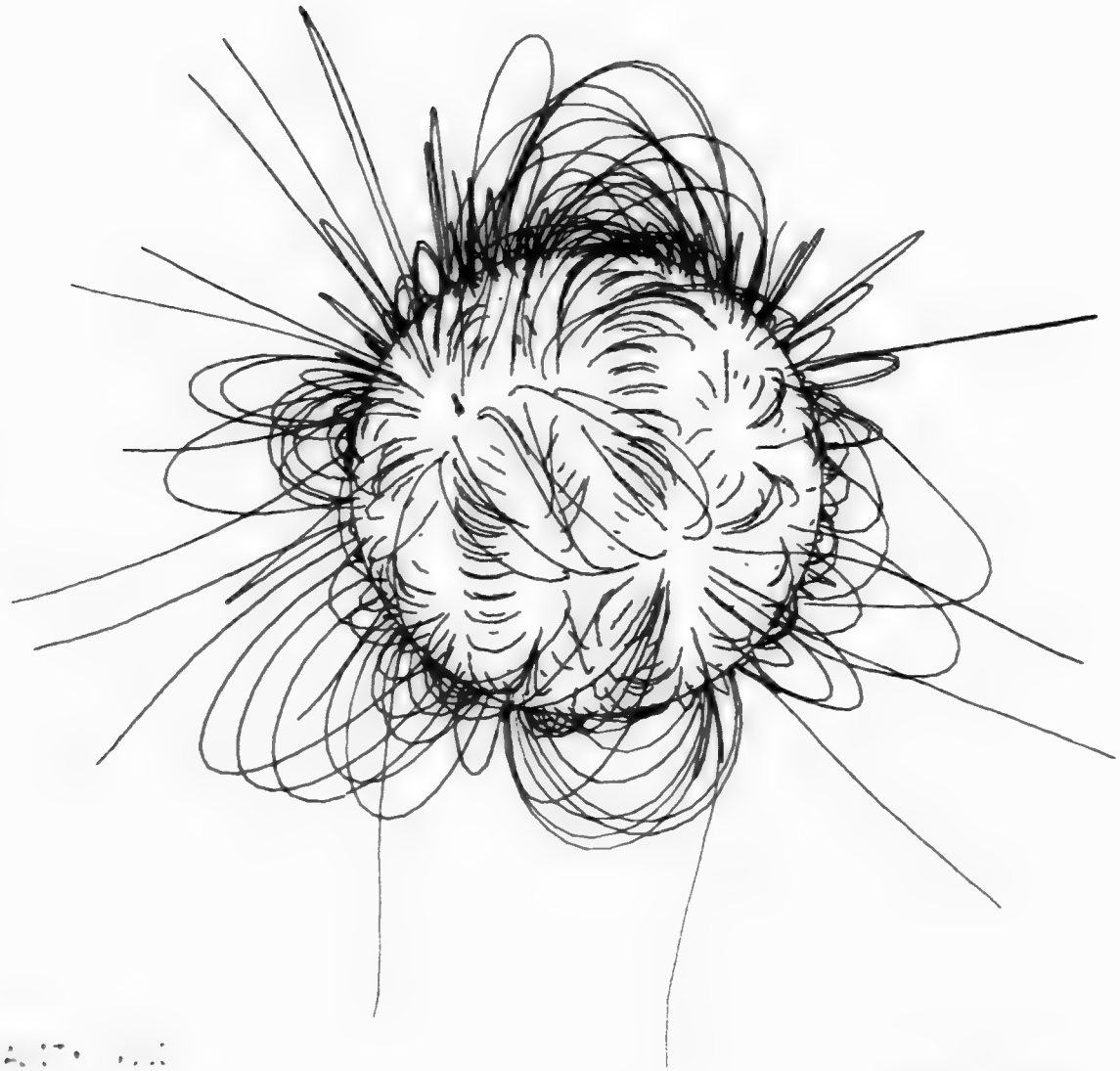
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

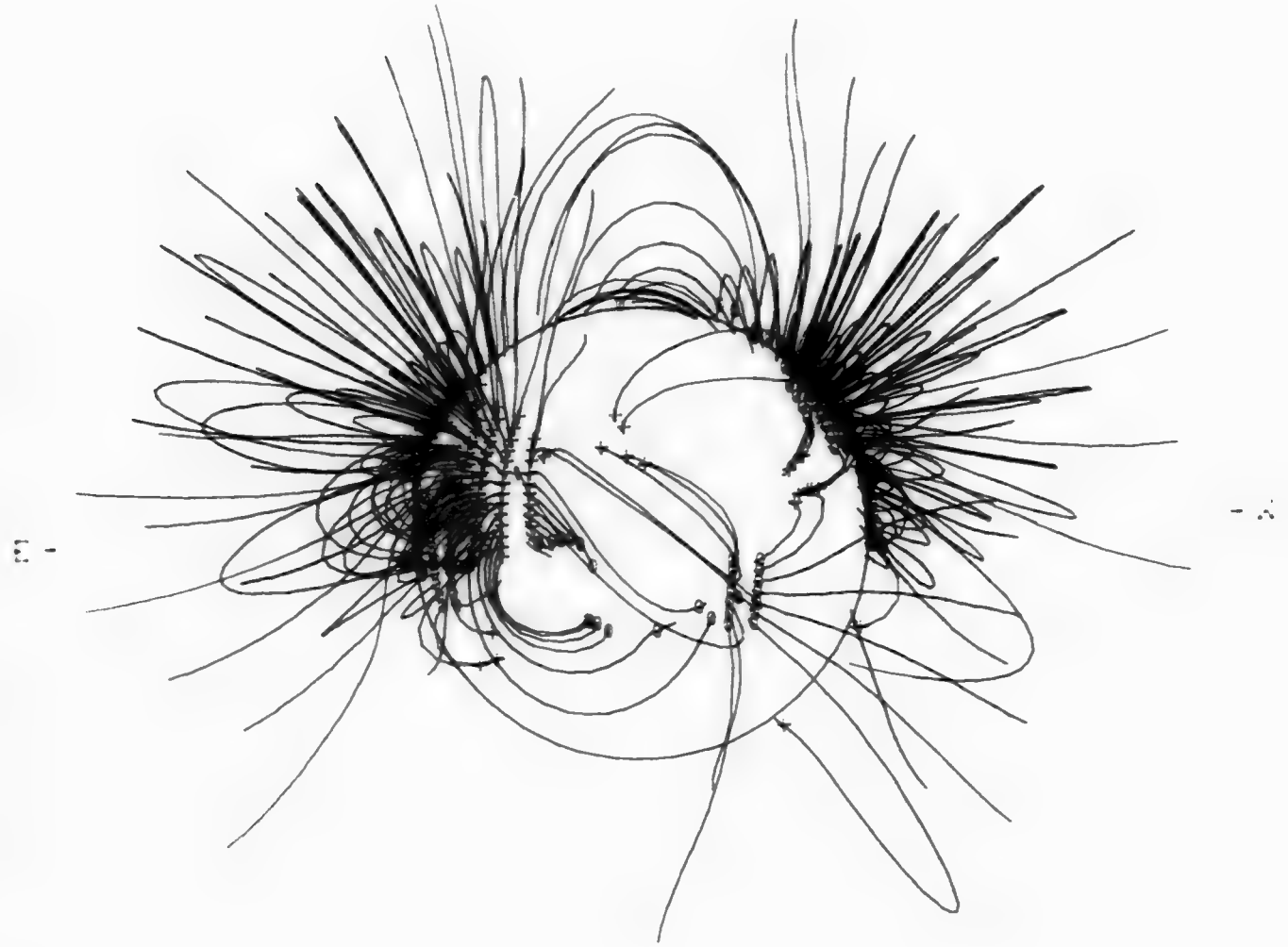
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

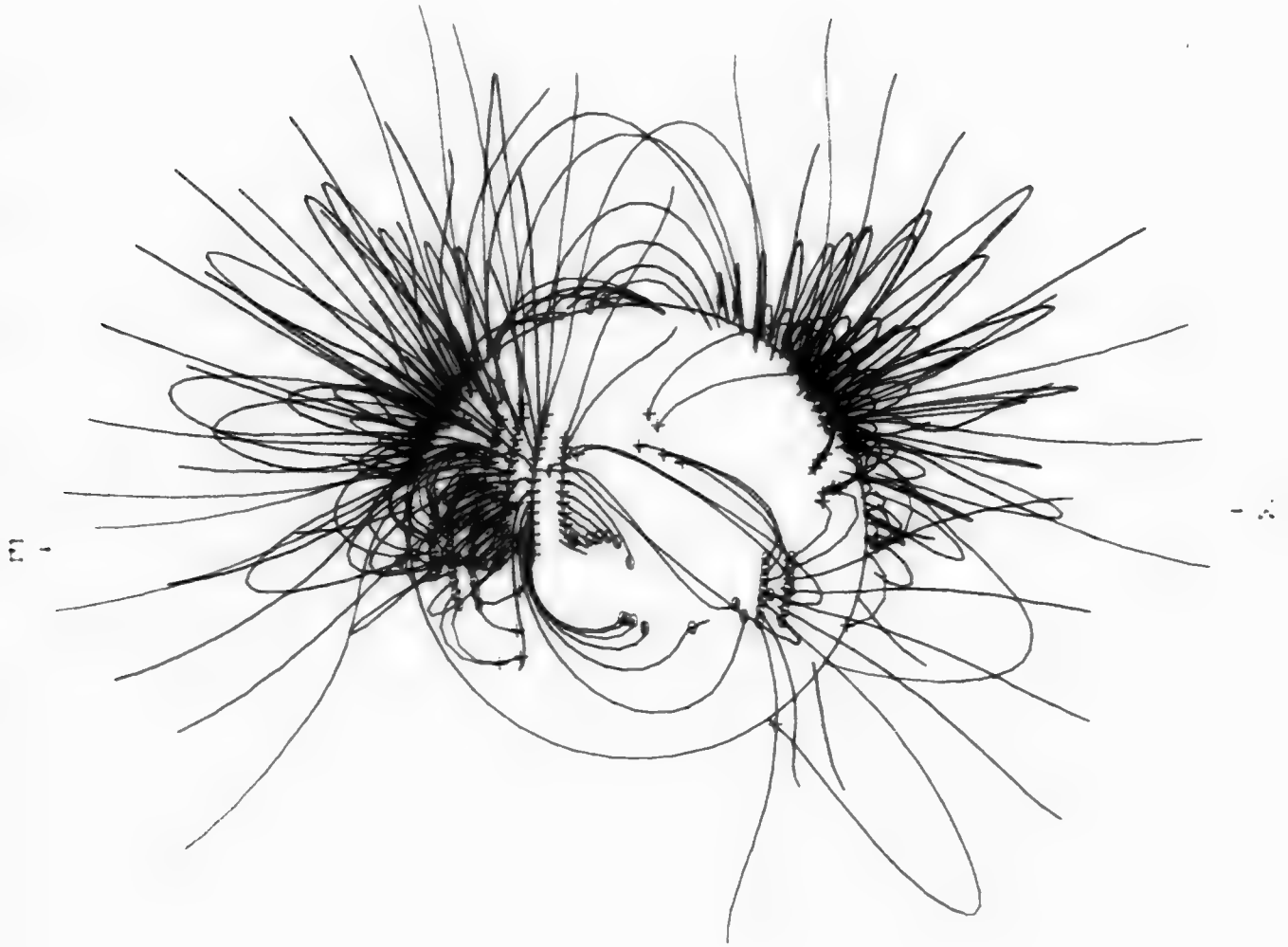


HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

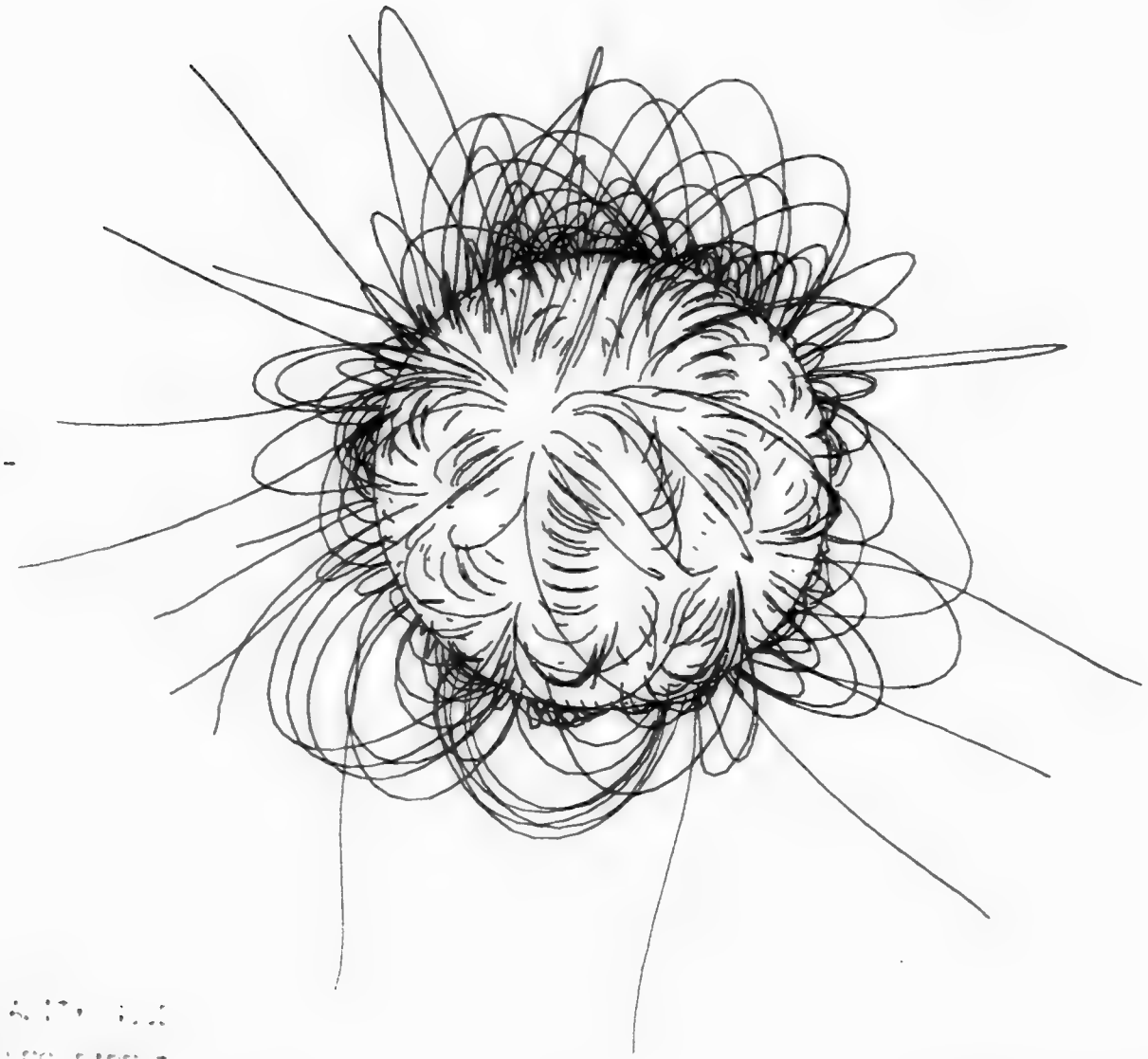


HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

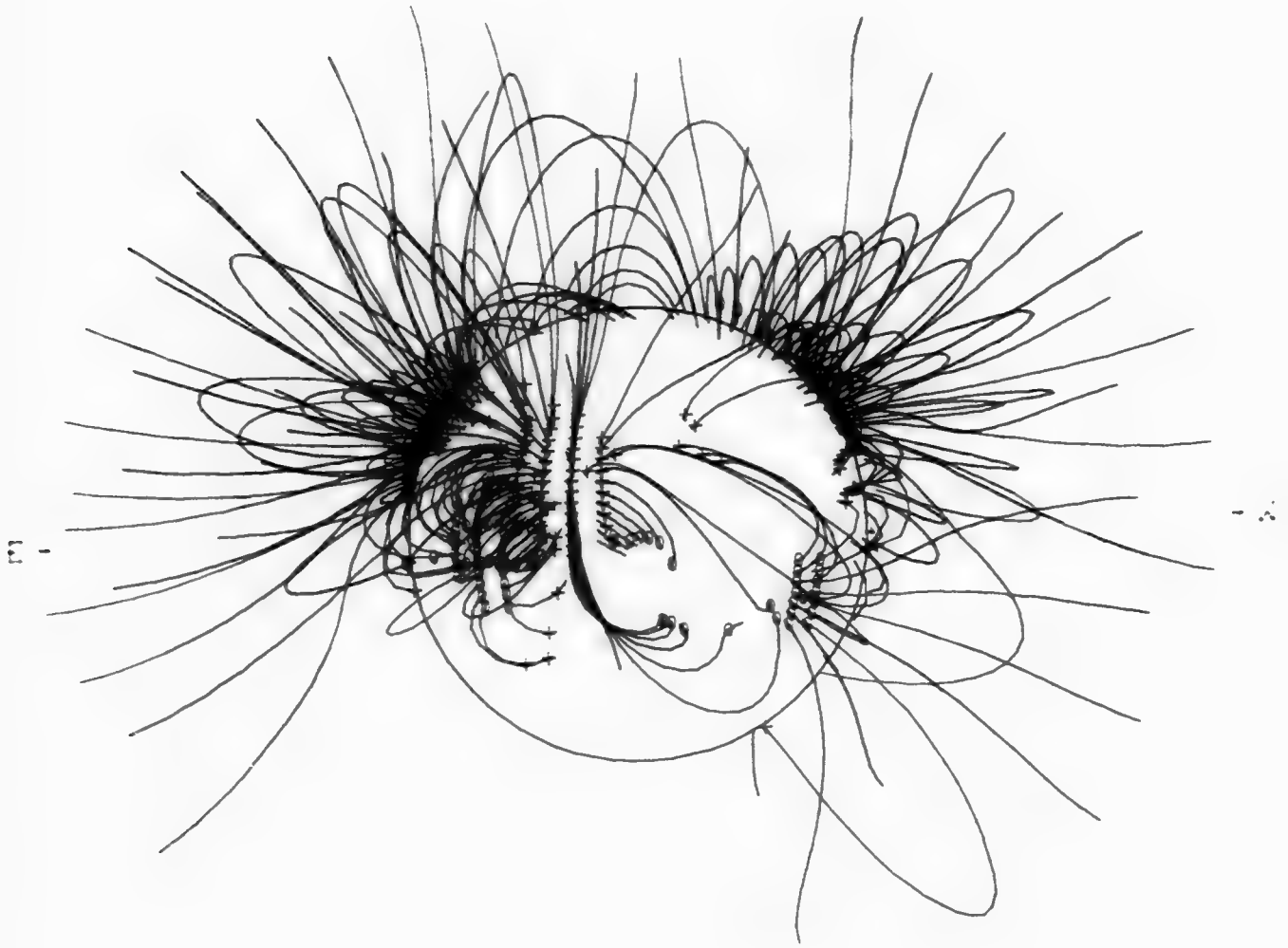
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

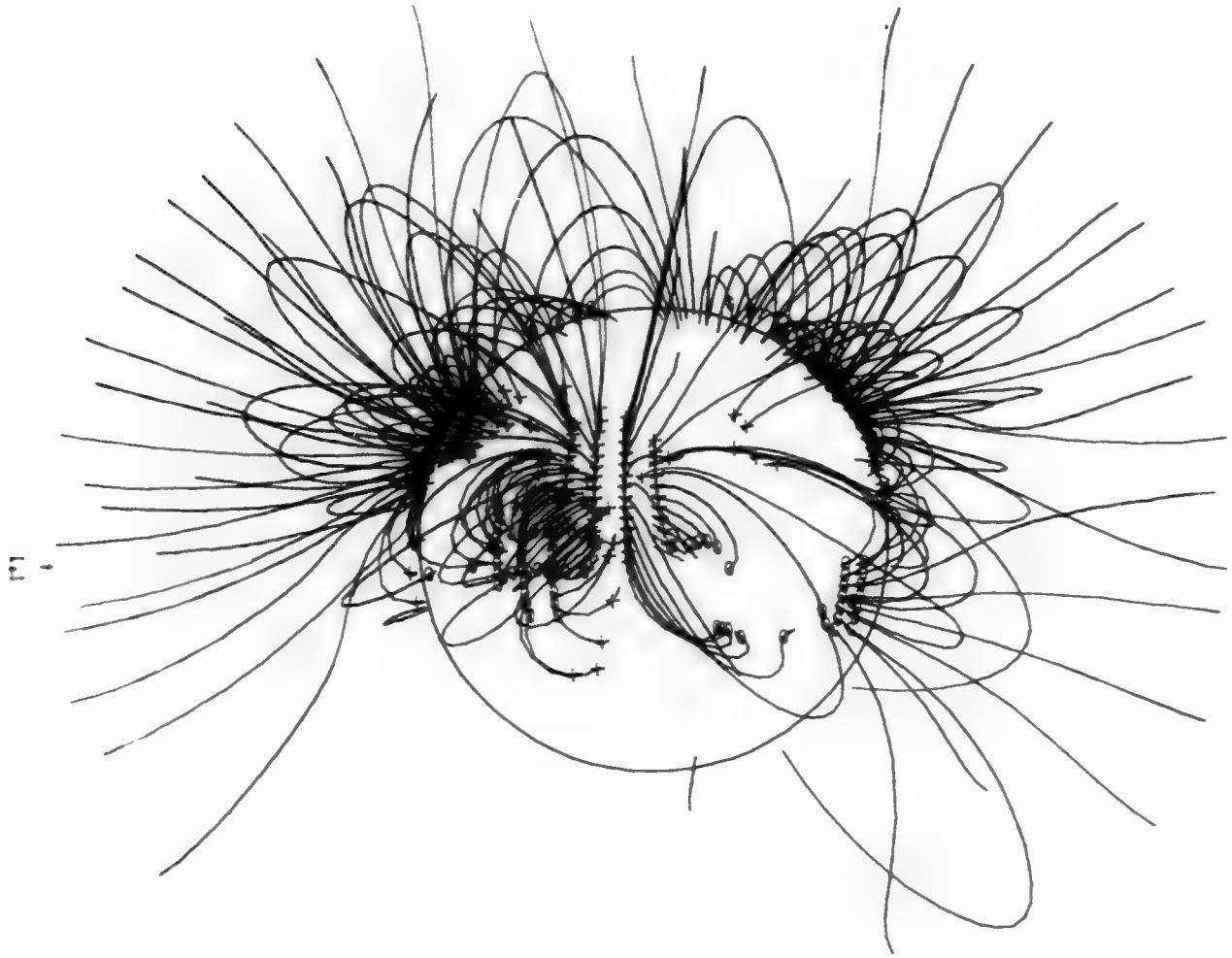


HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



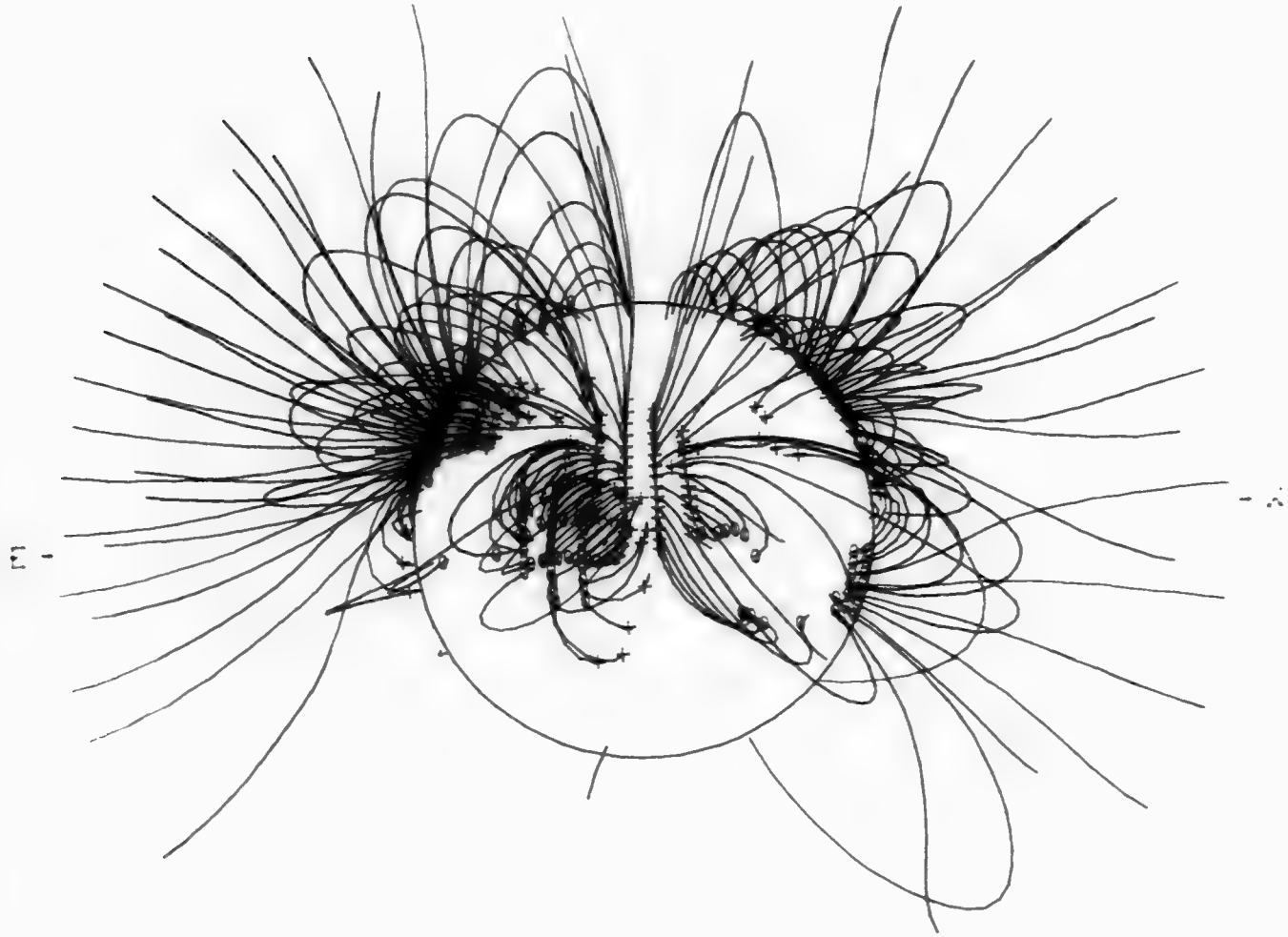
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

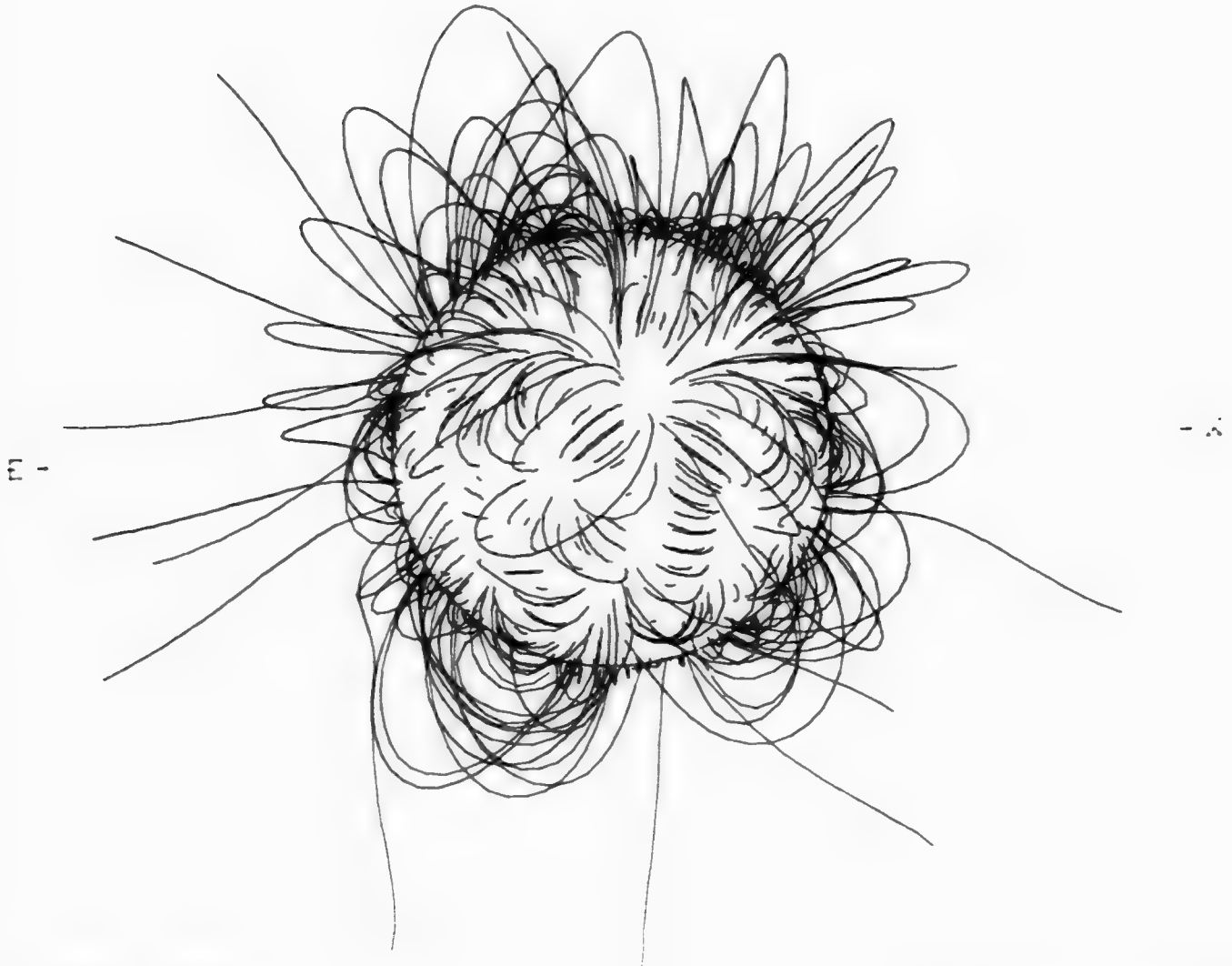


HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

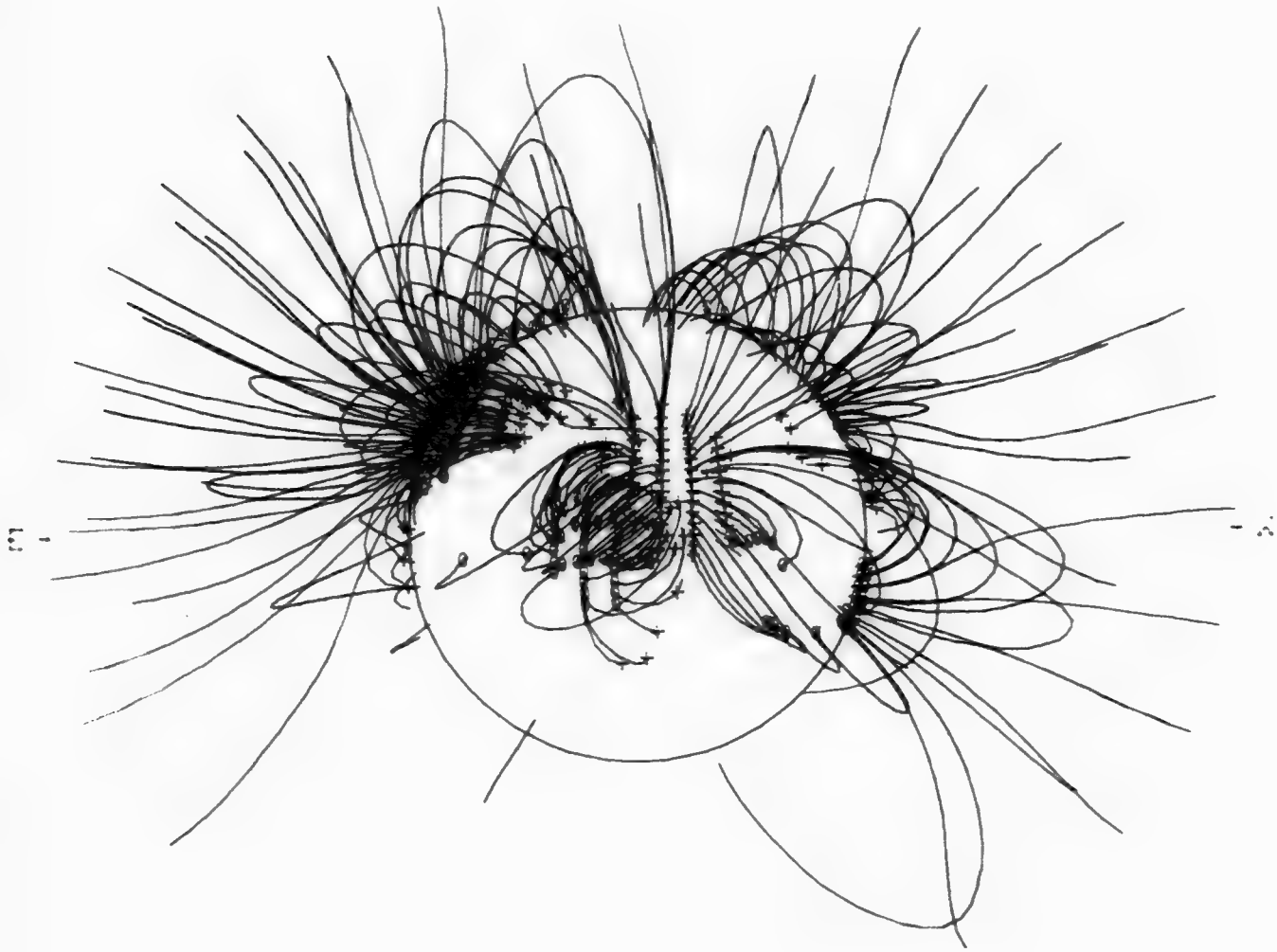
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



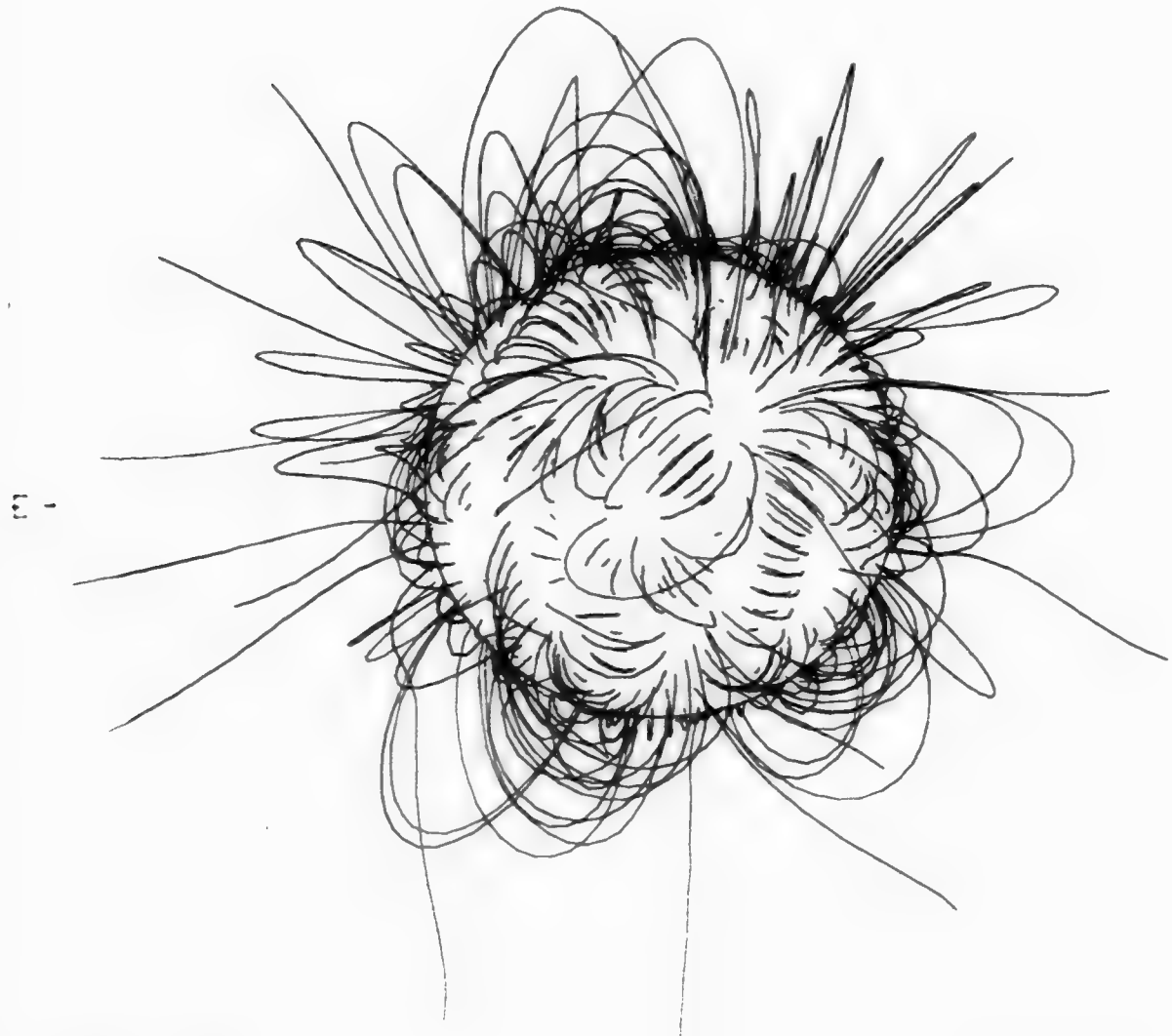
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



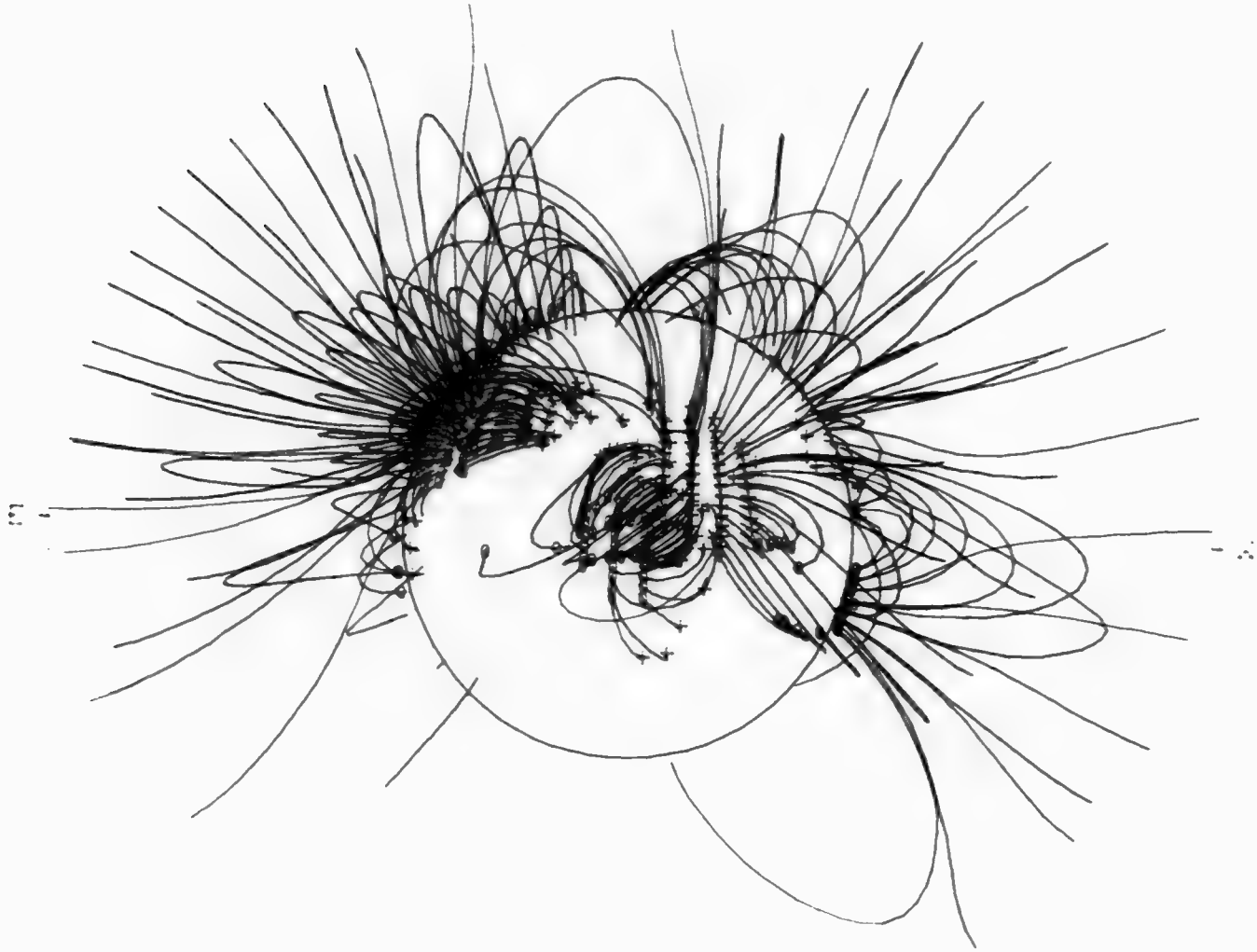
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



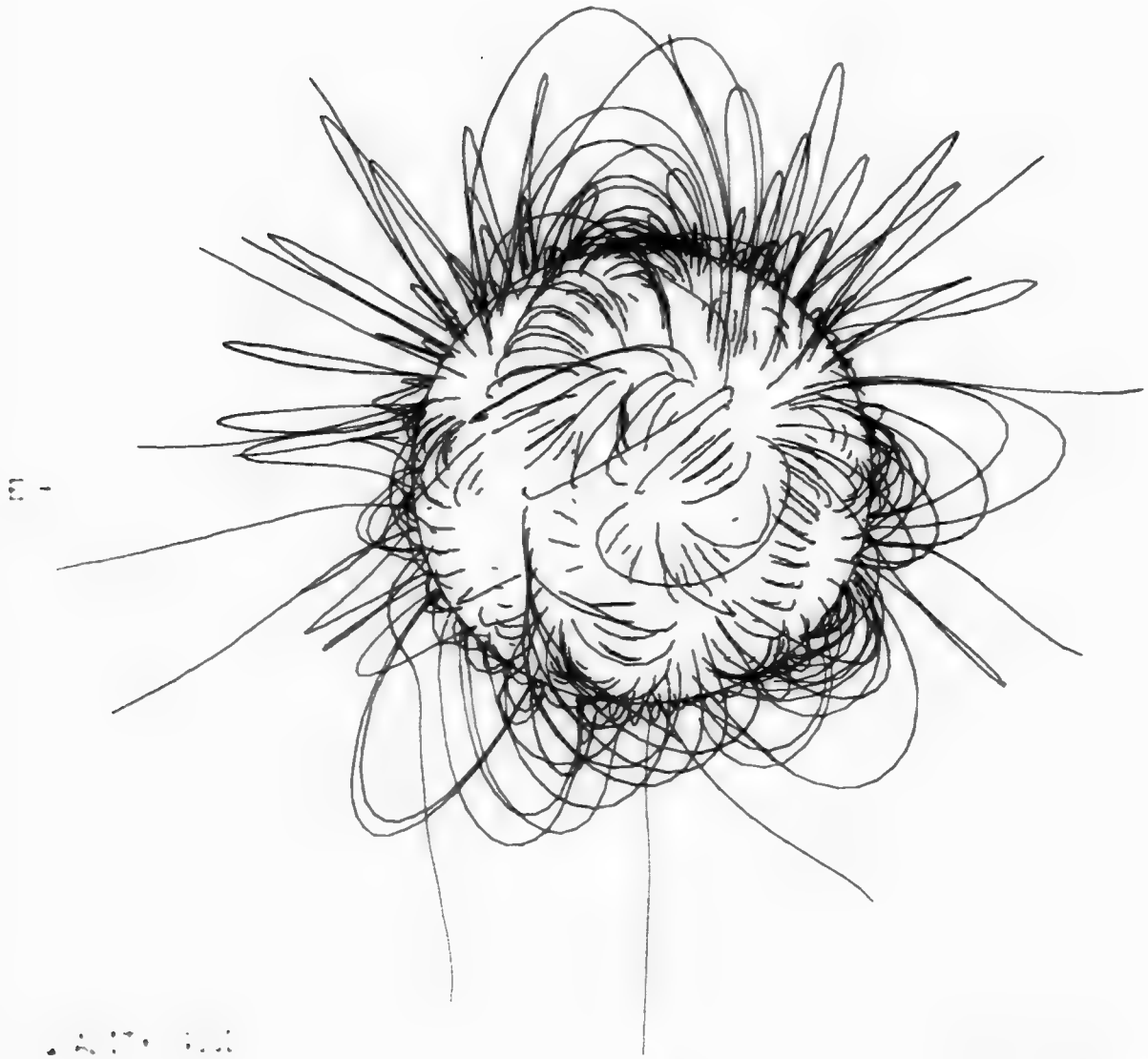
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



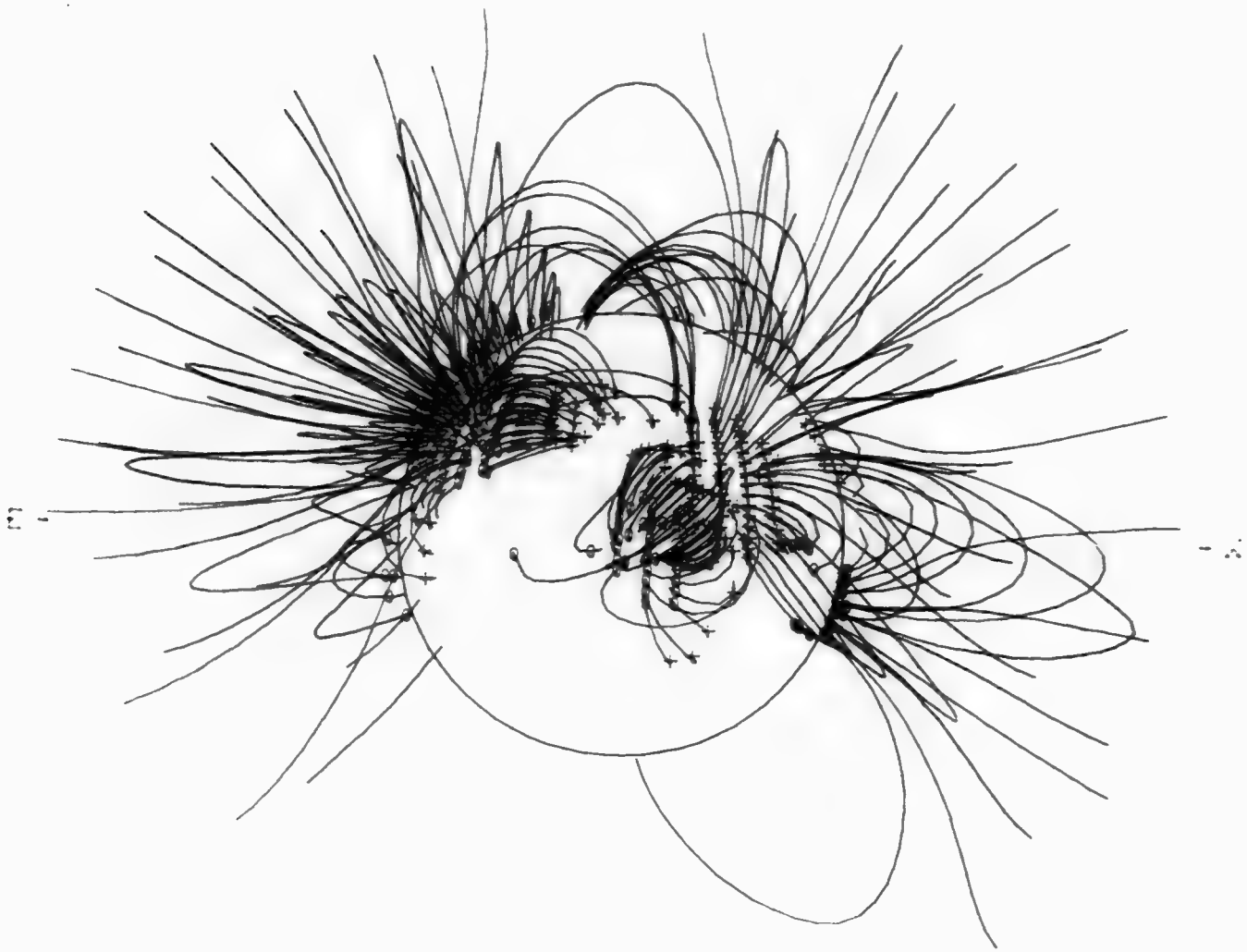
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



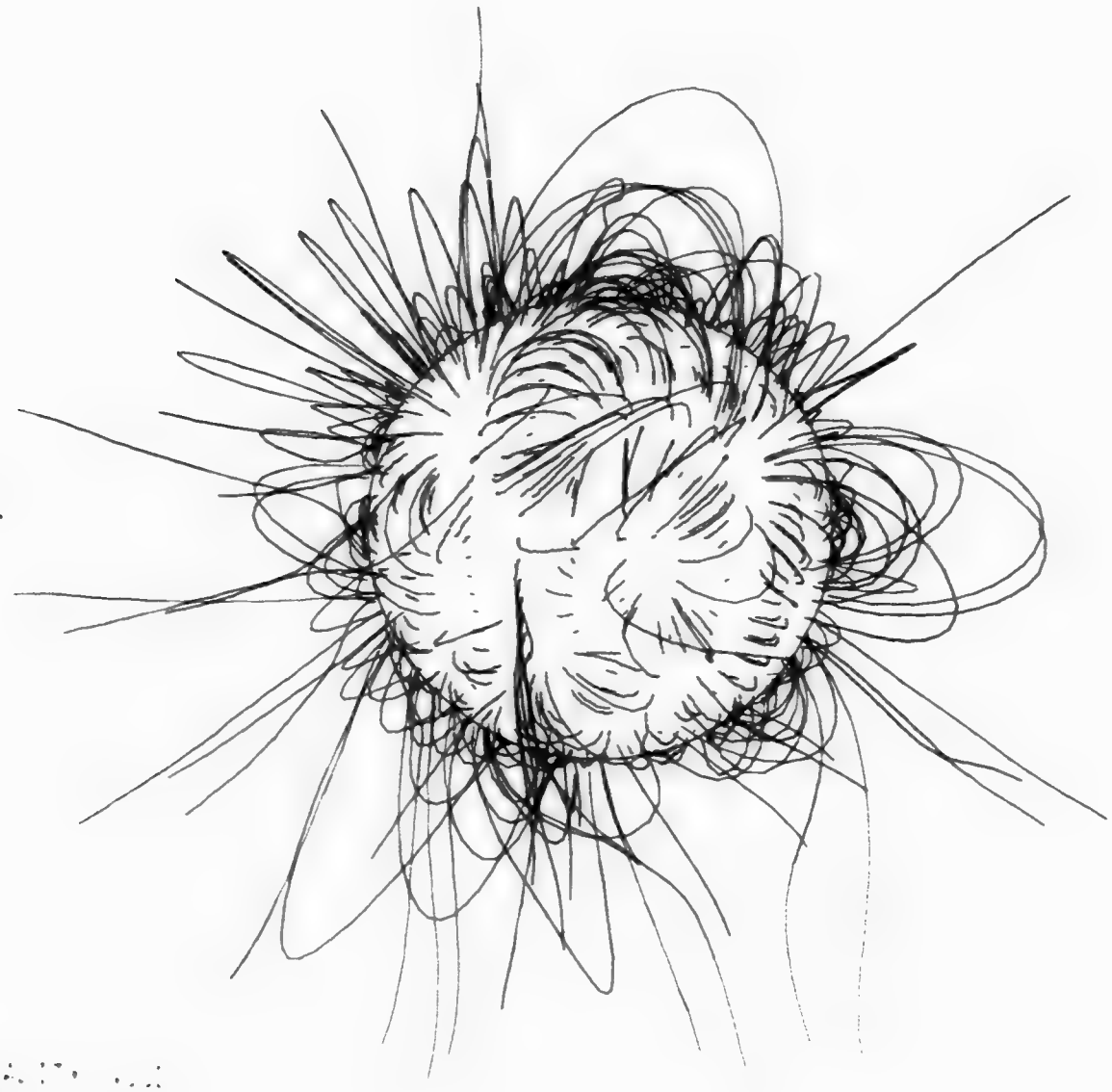
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



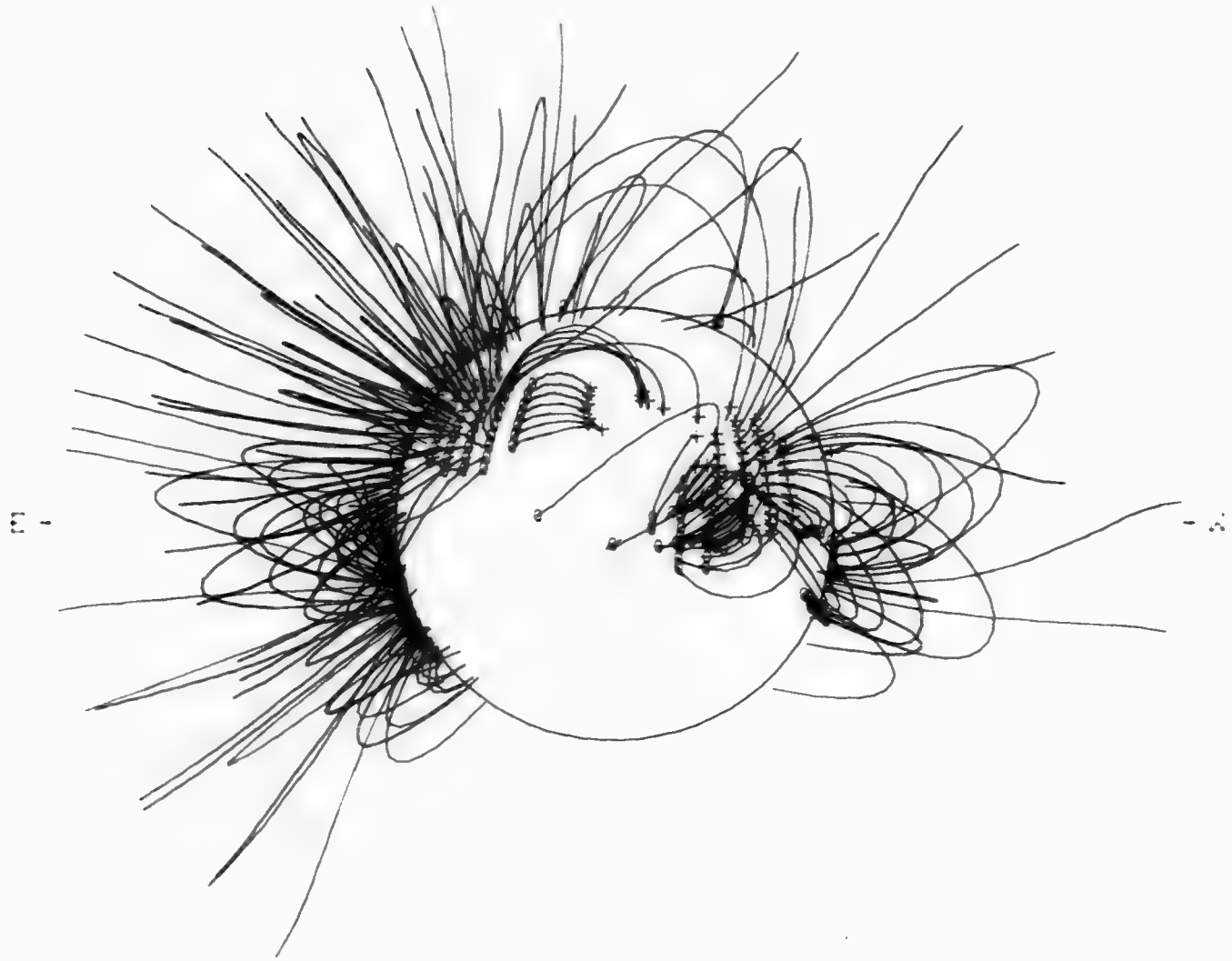
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



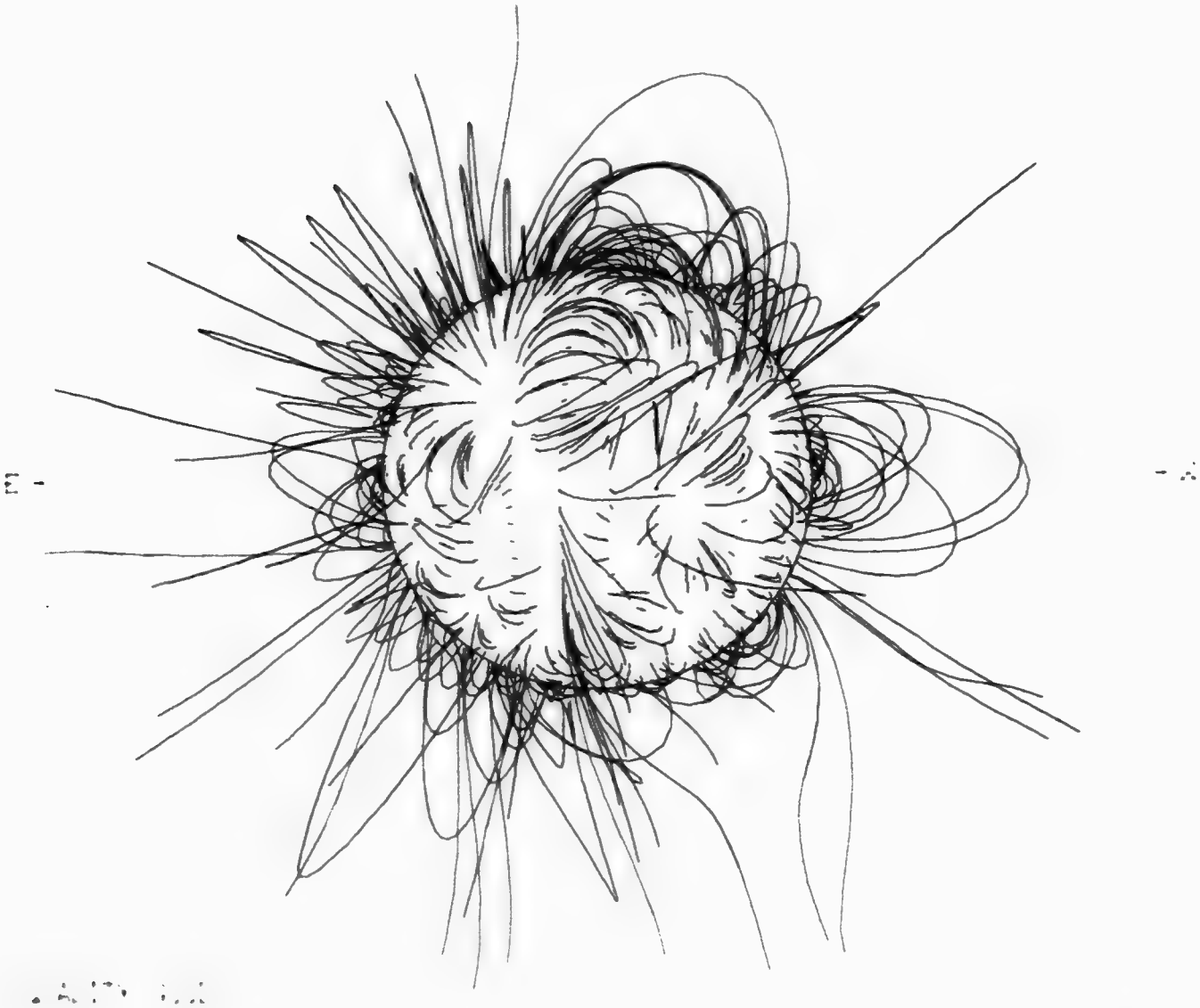
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



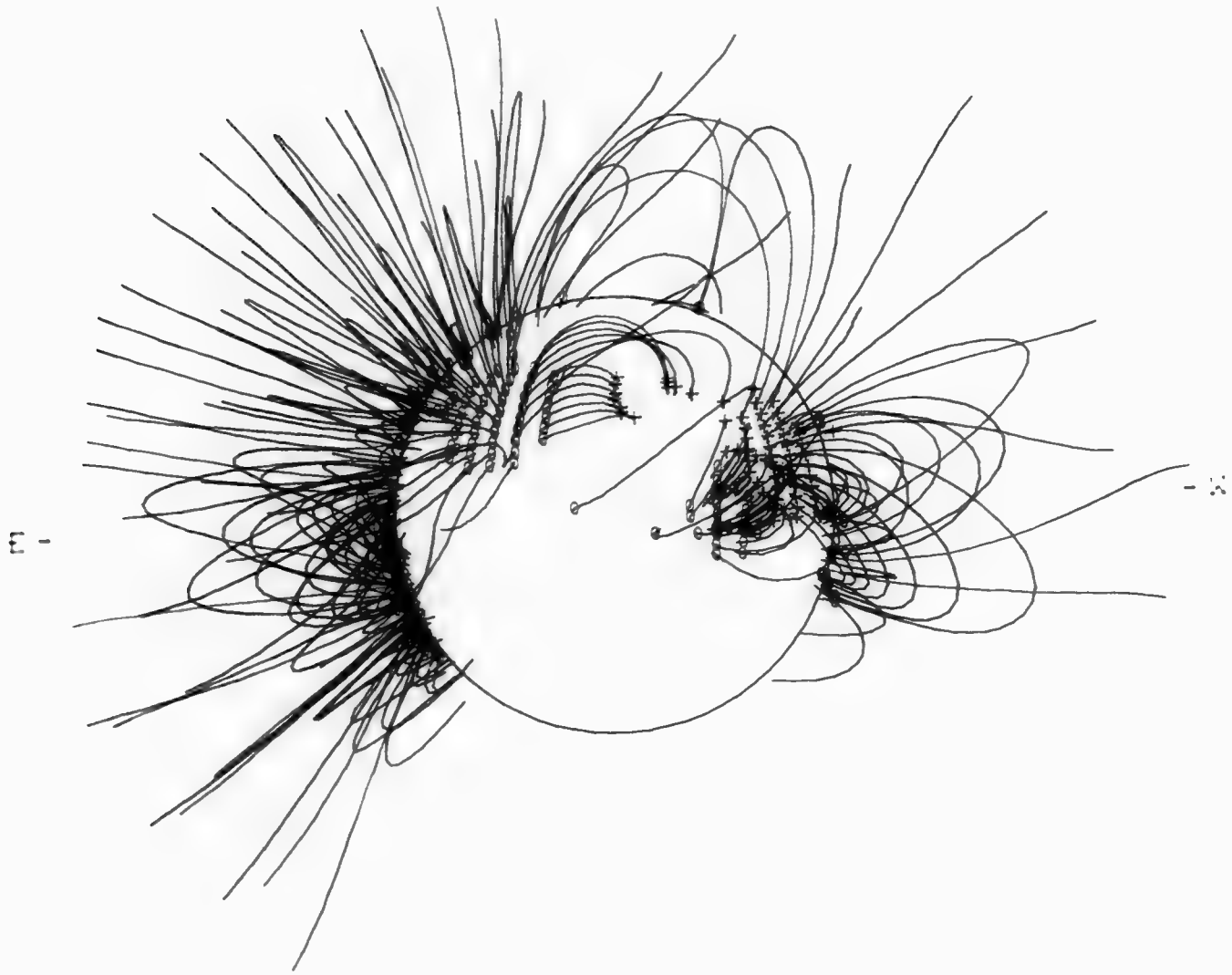
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



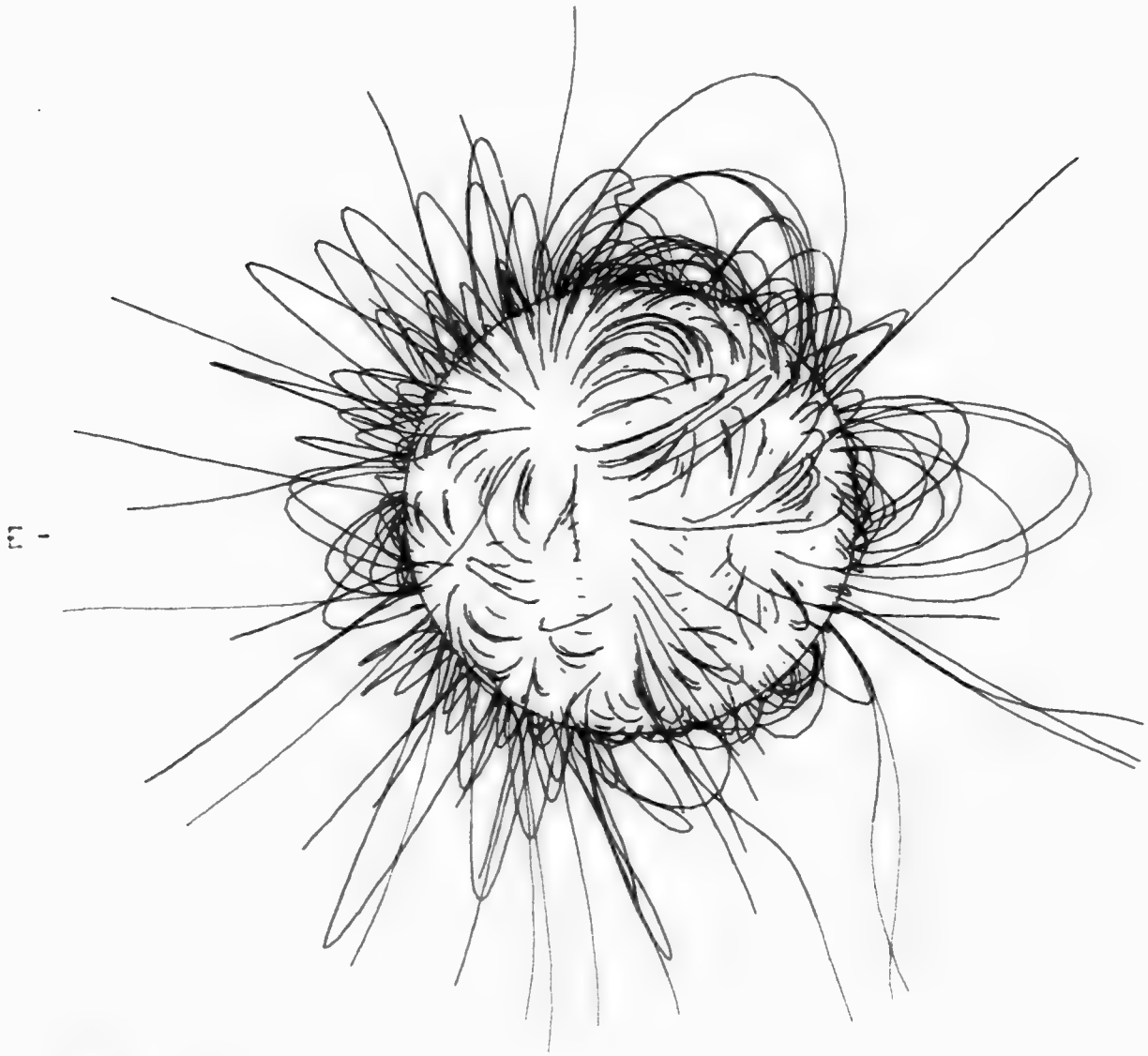
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



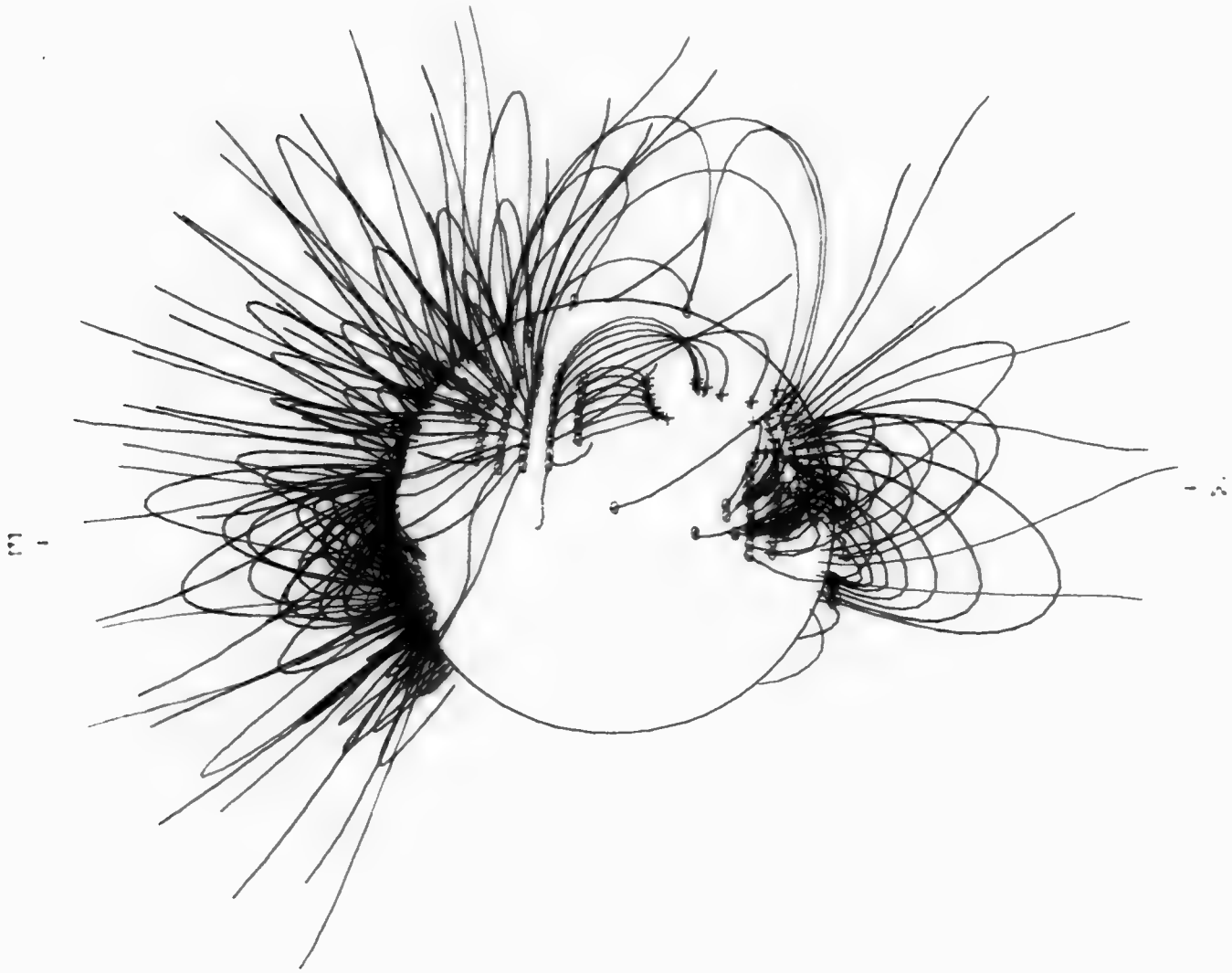
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



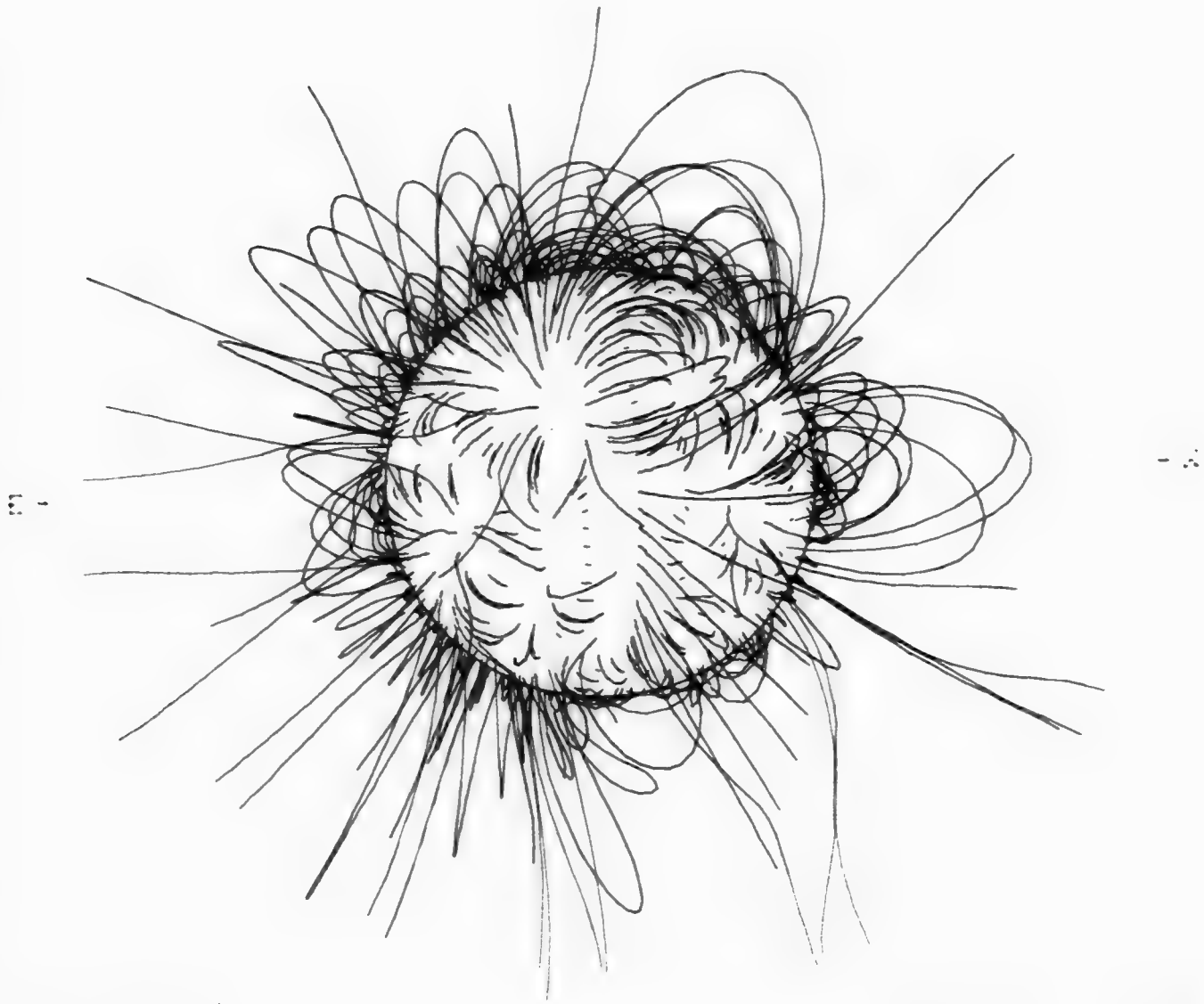
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



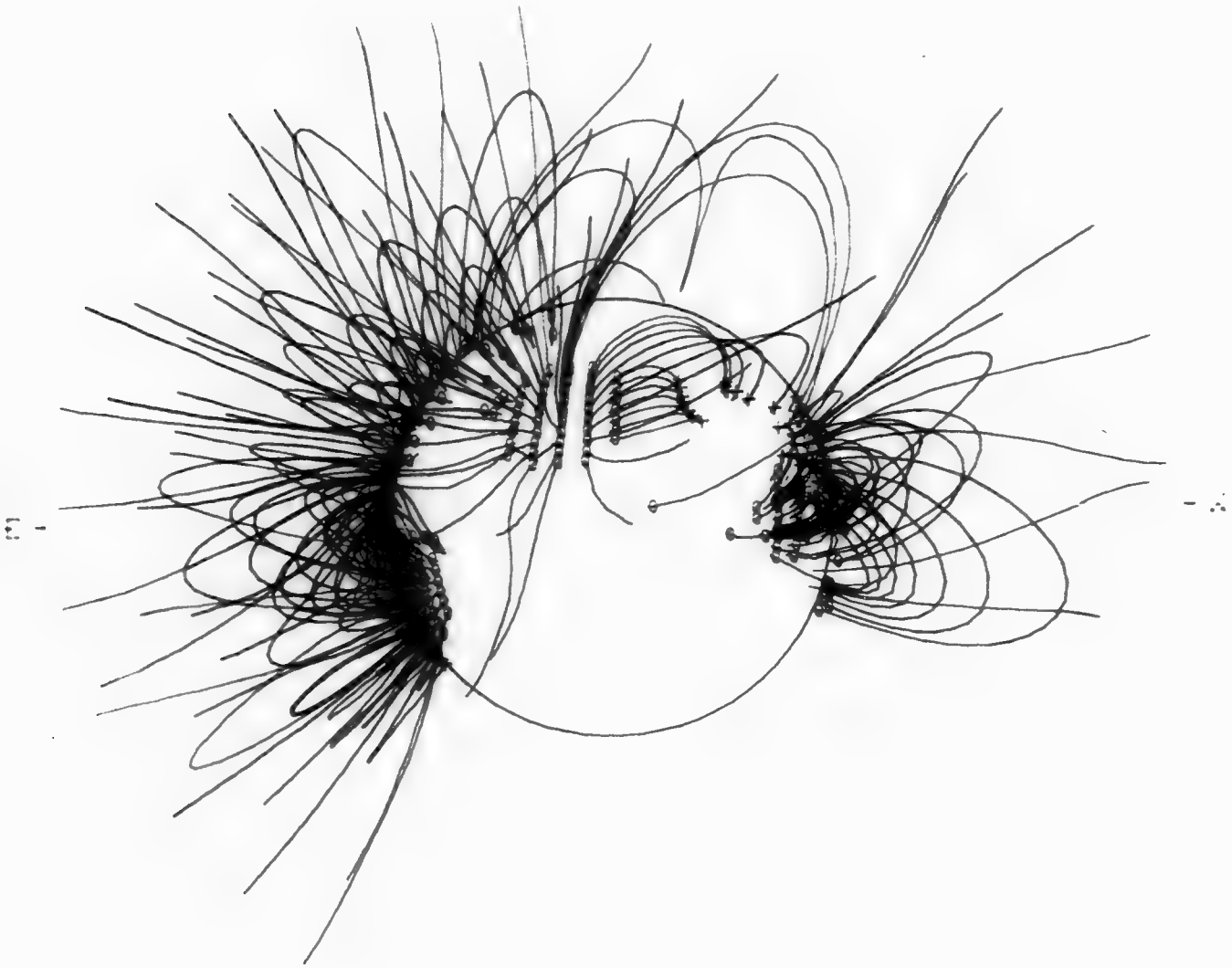
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



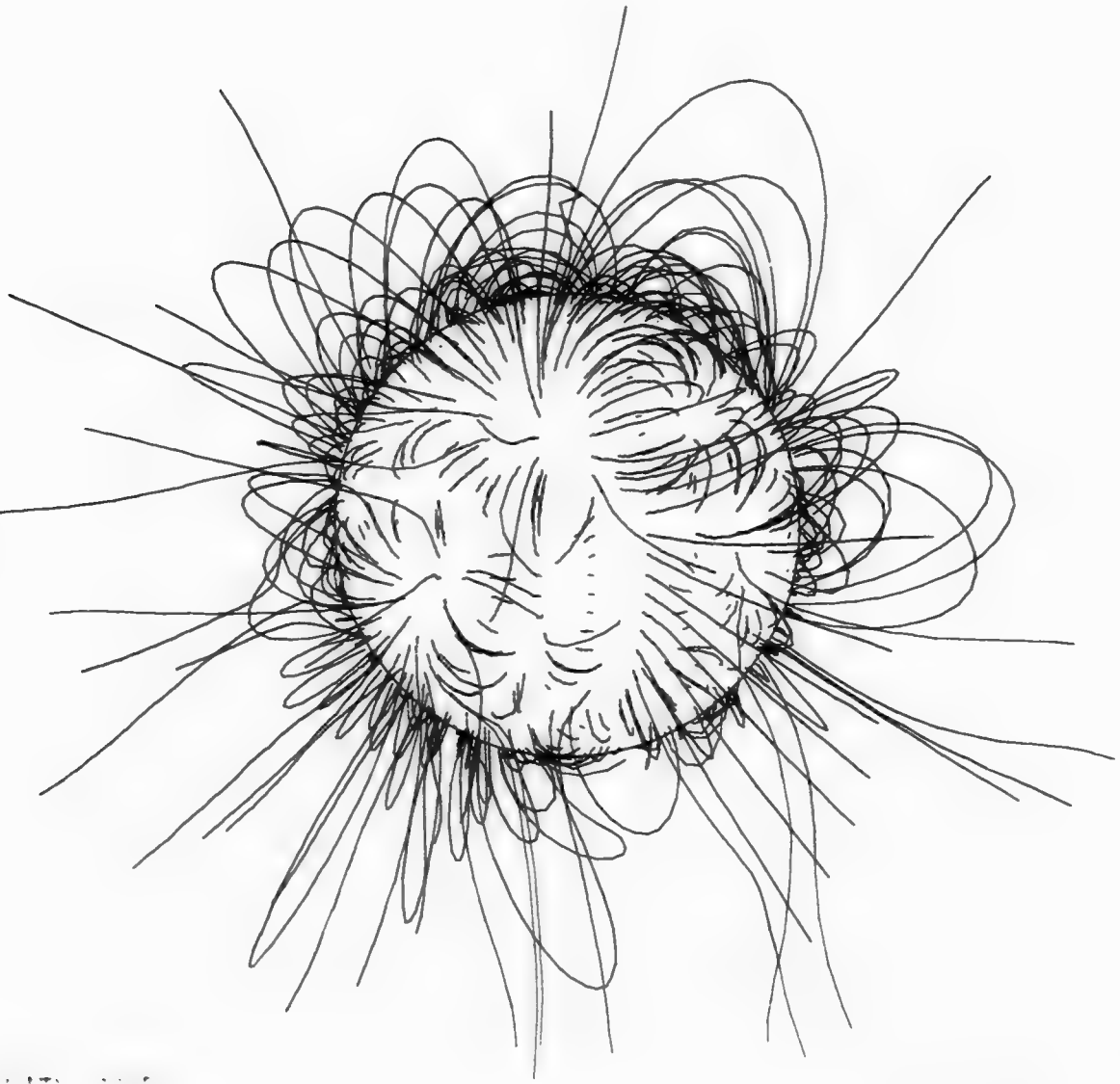
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N

E -

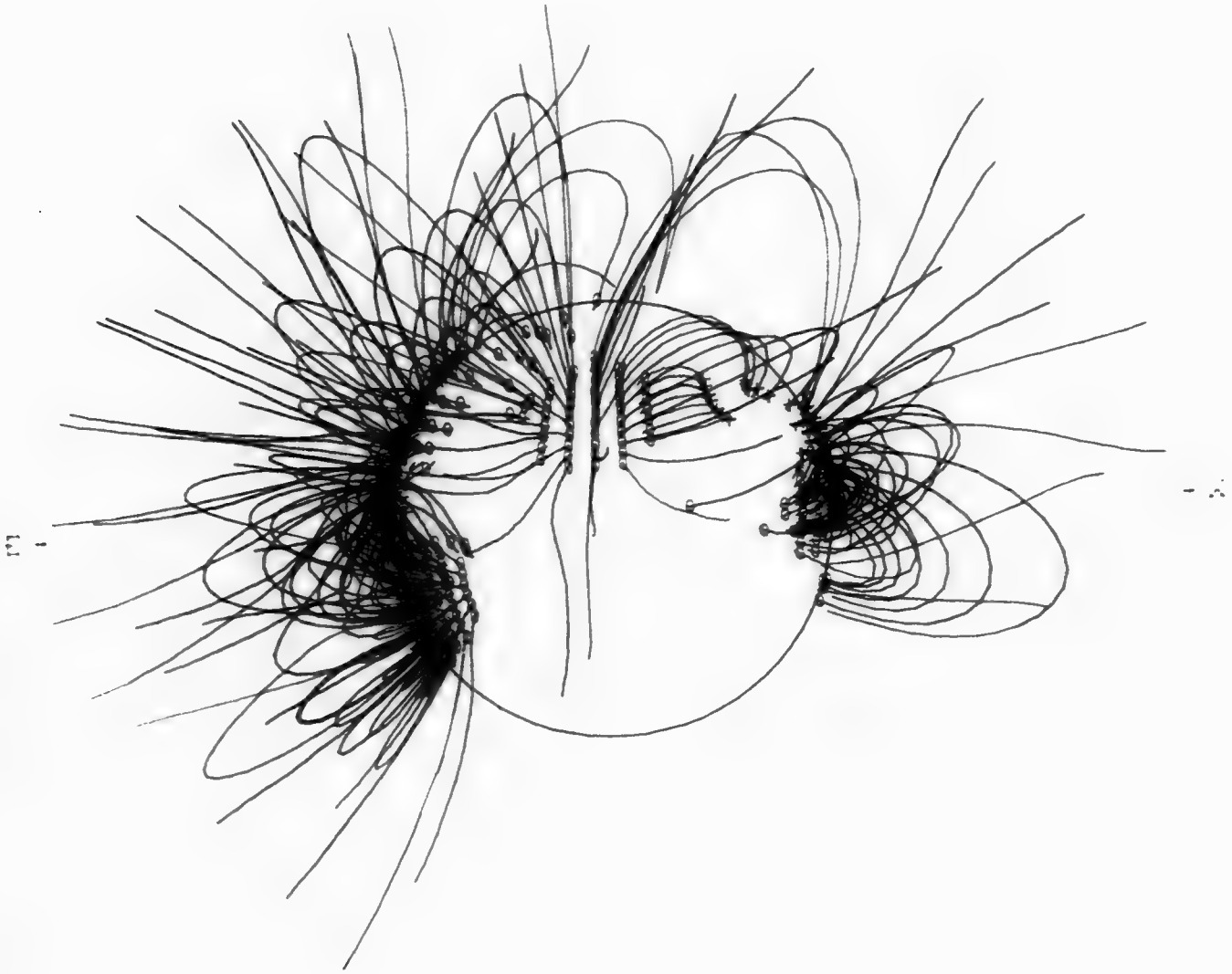
- W

S

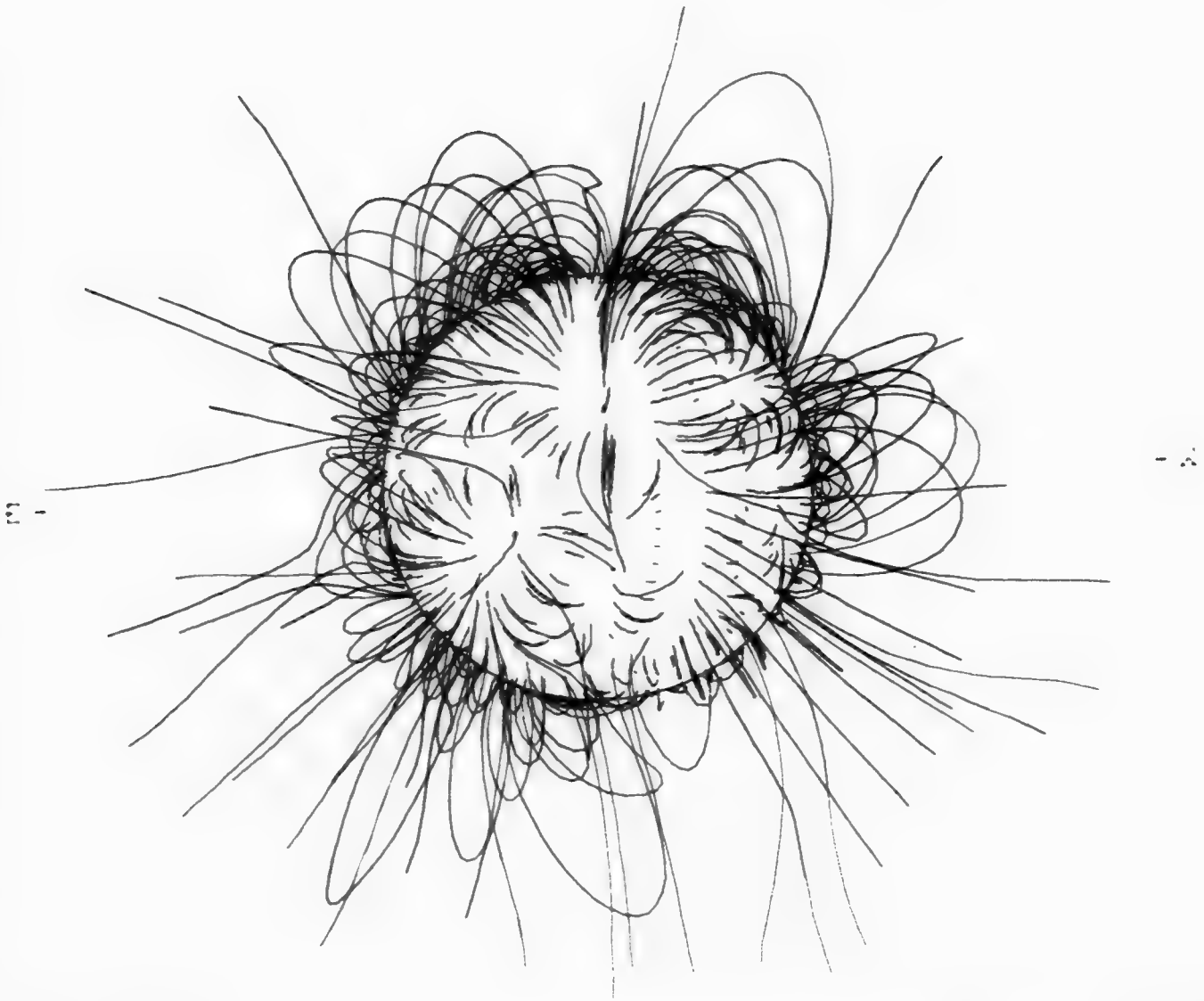


POLES DIRECT

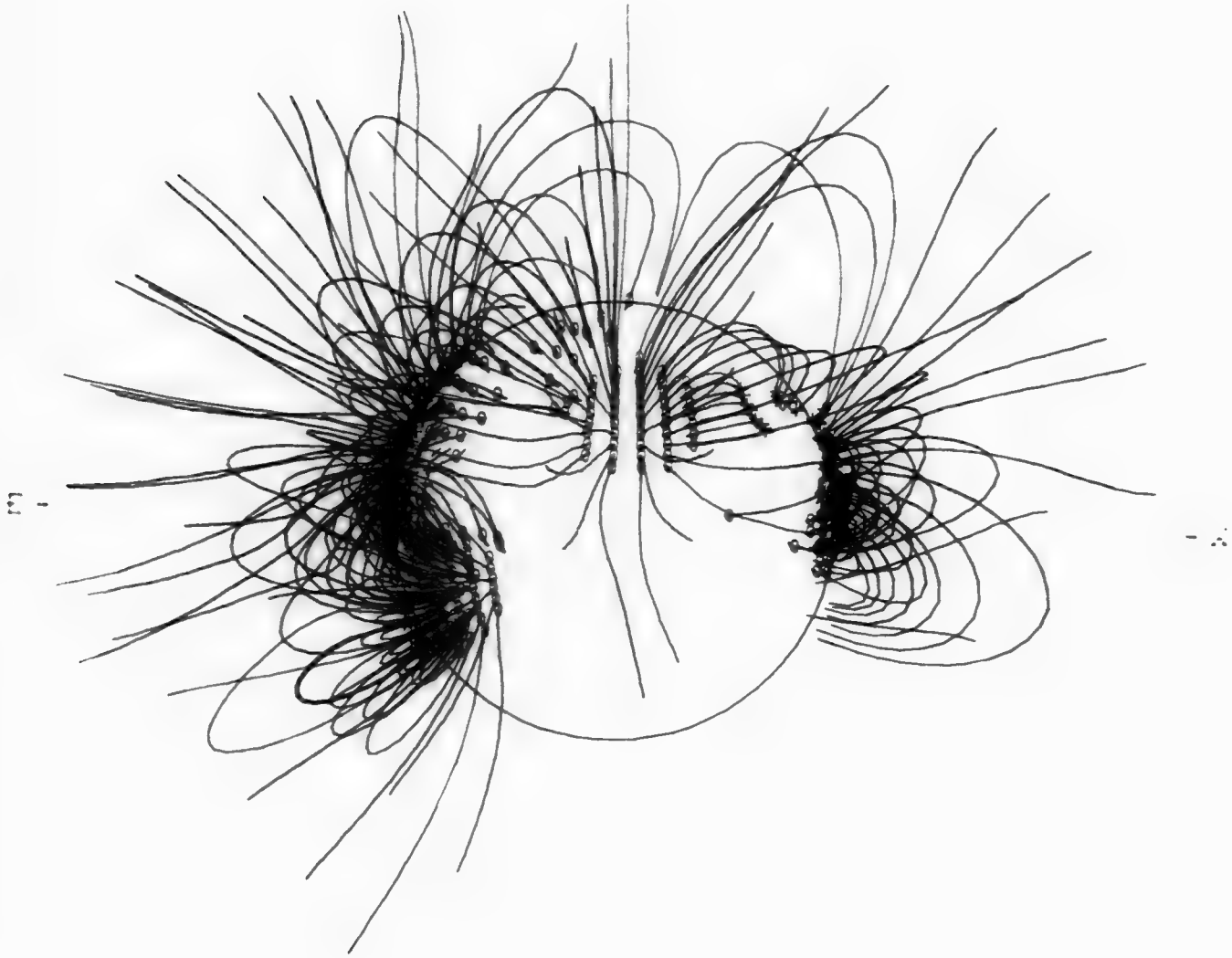
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



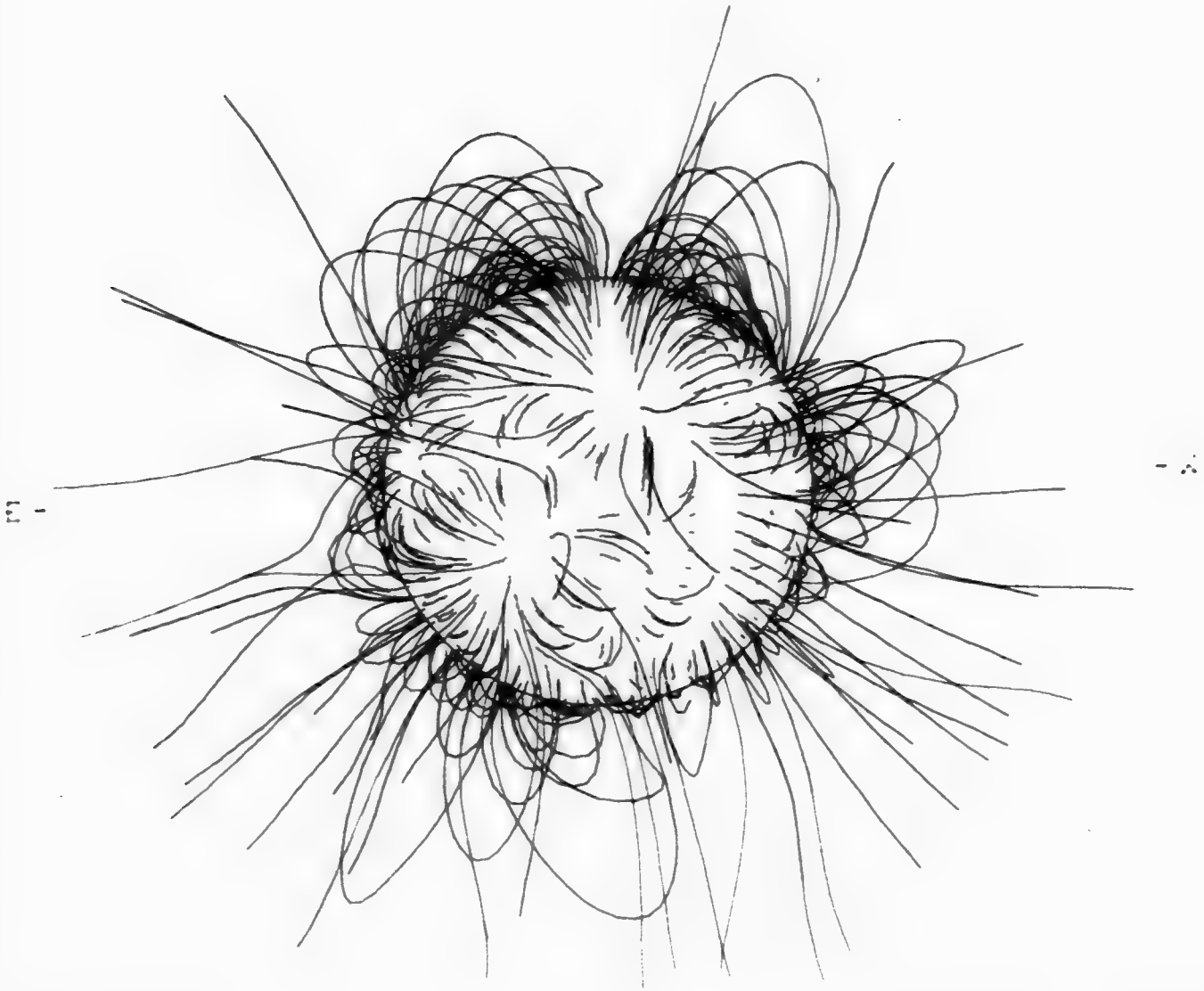
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



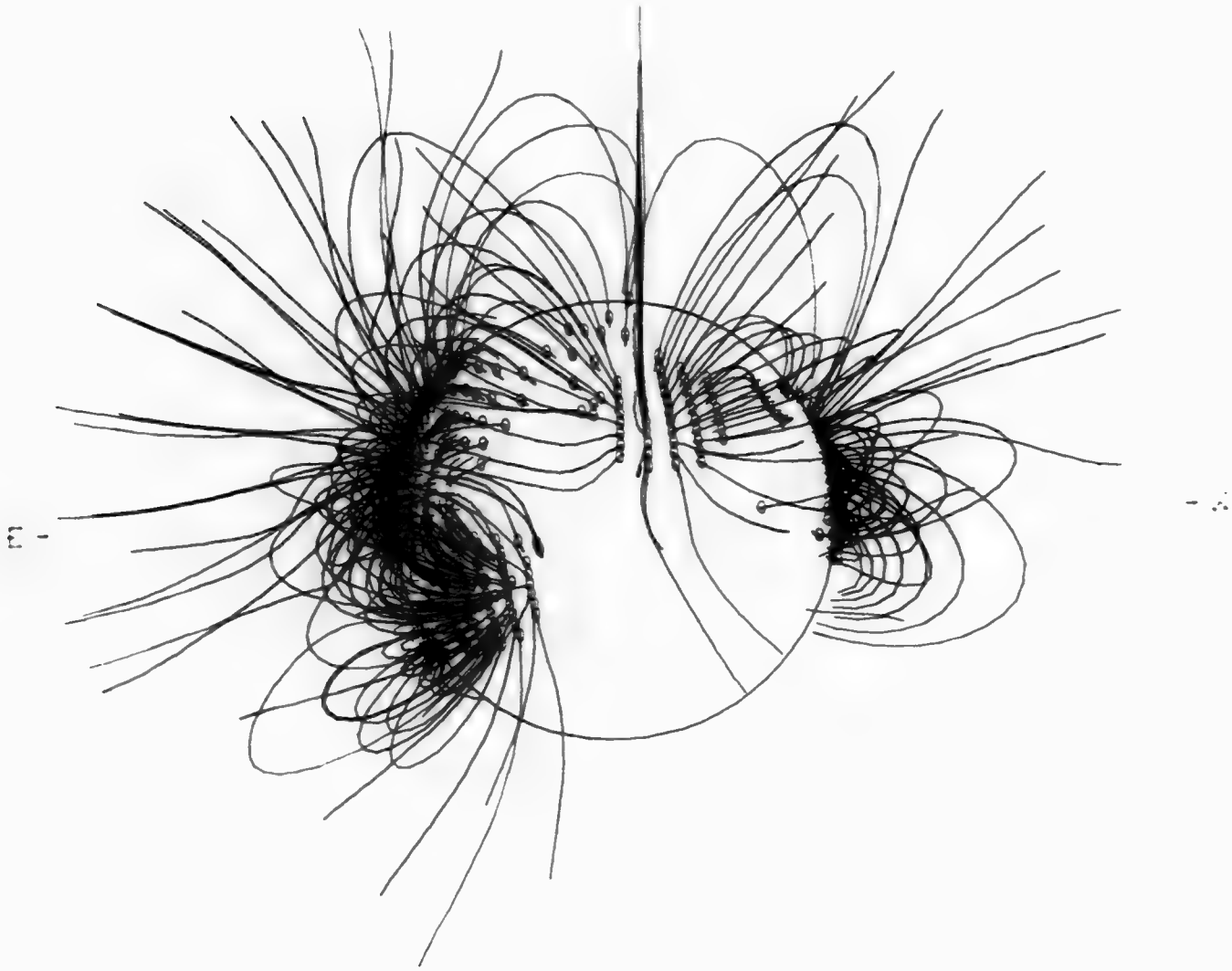
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



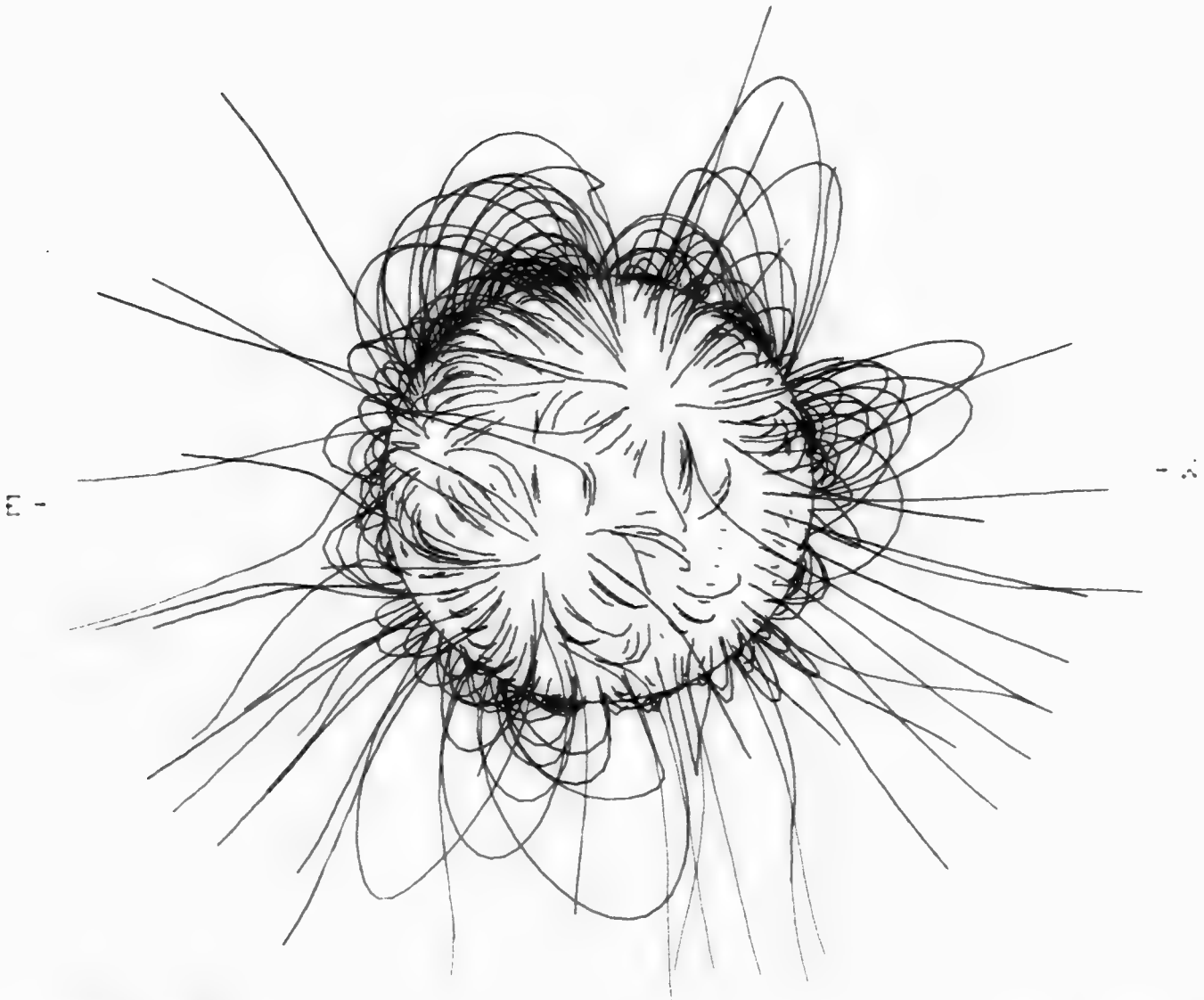
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



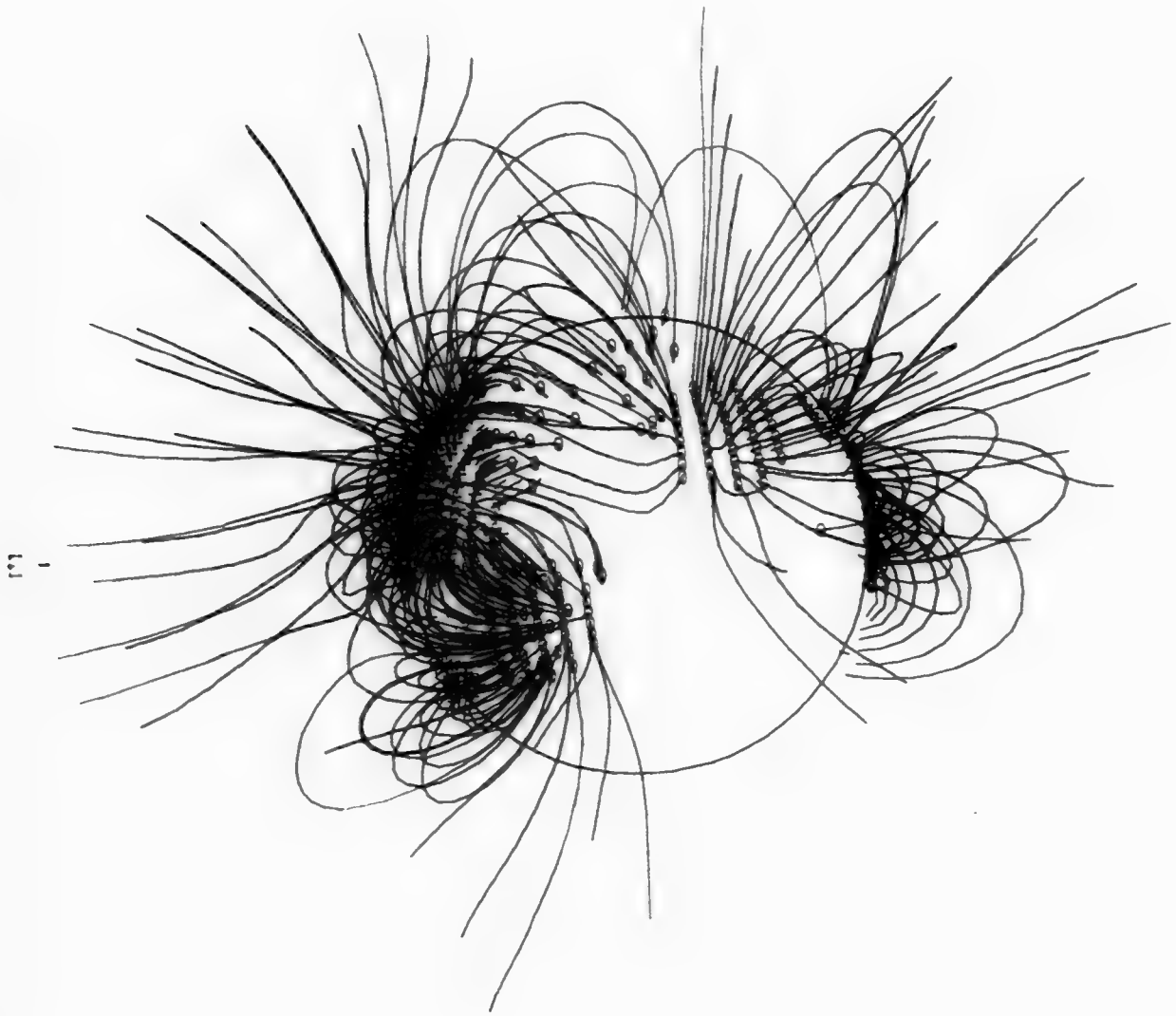
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



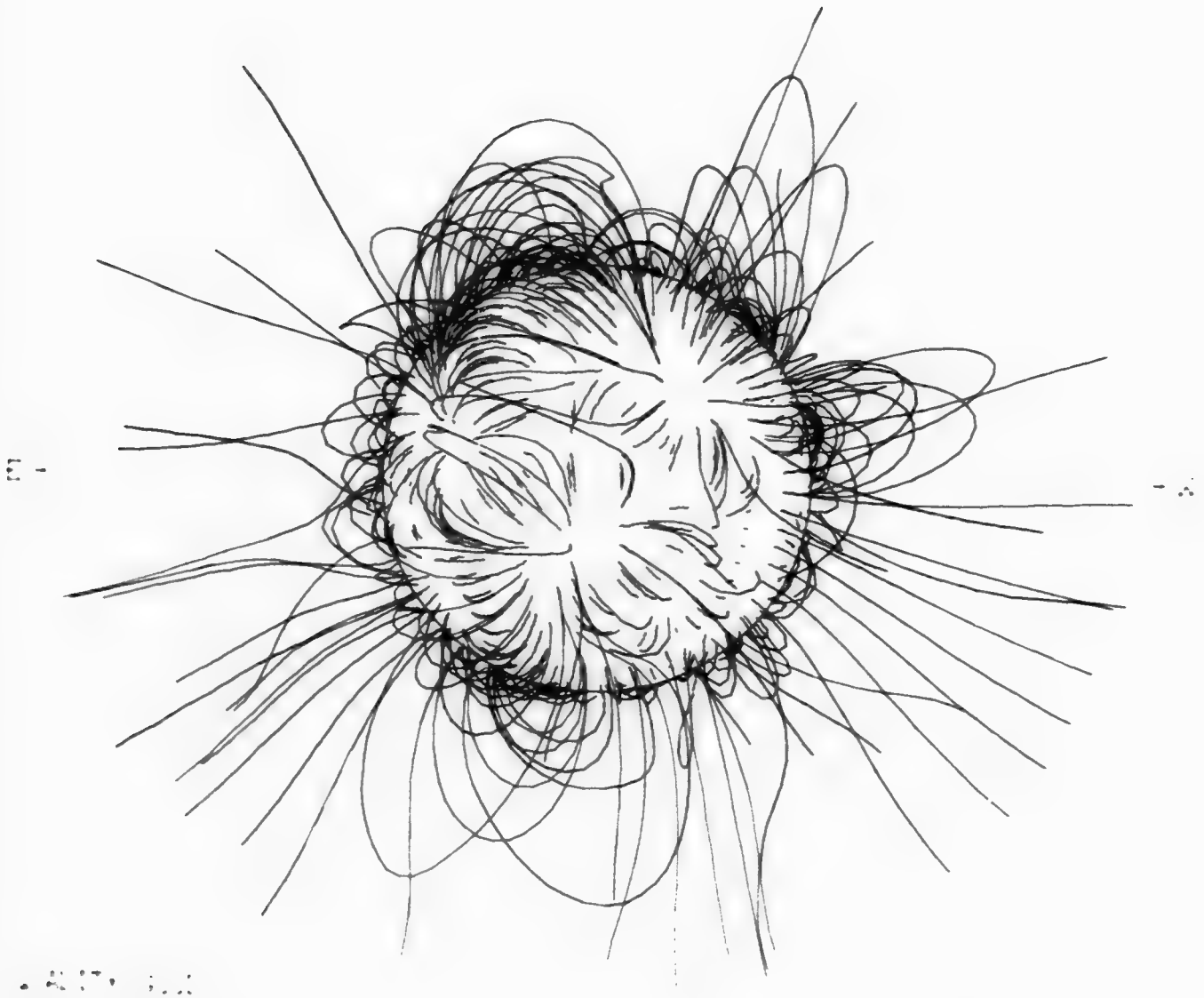
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



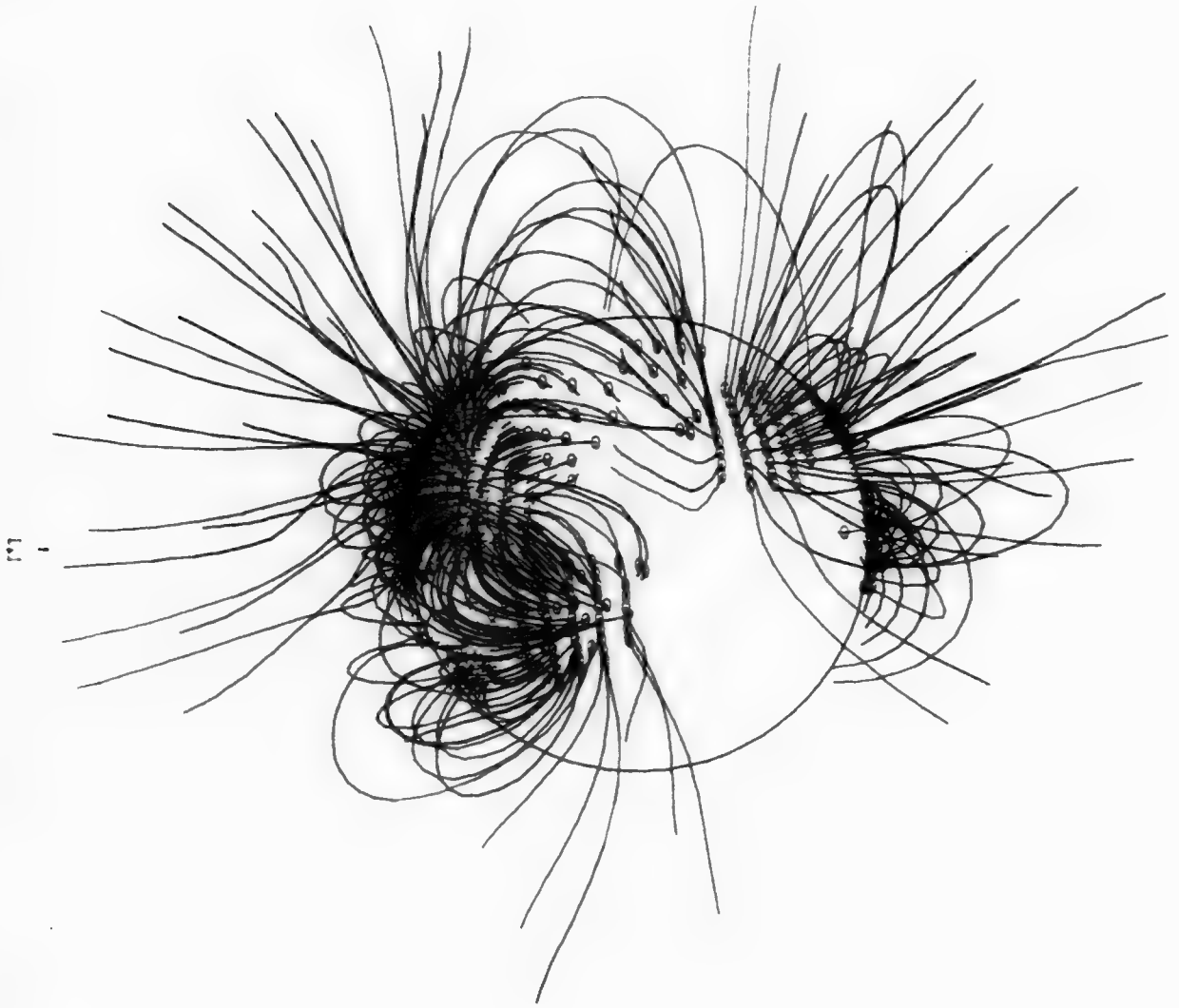
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



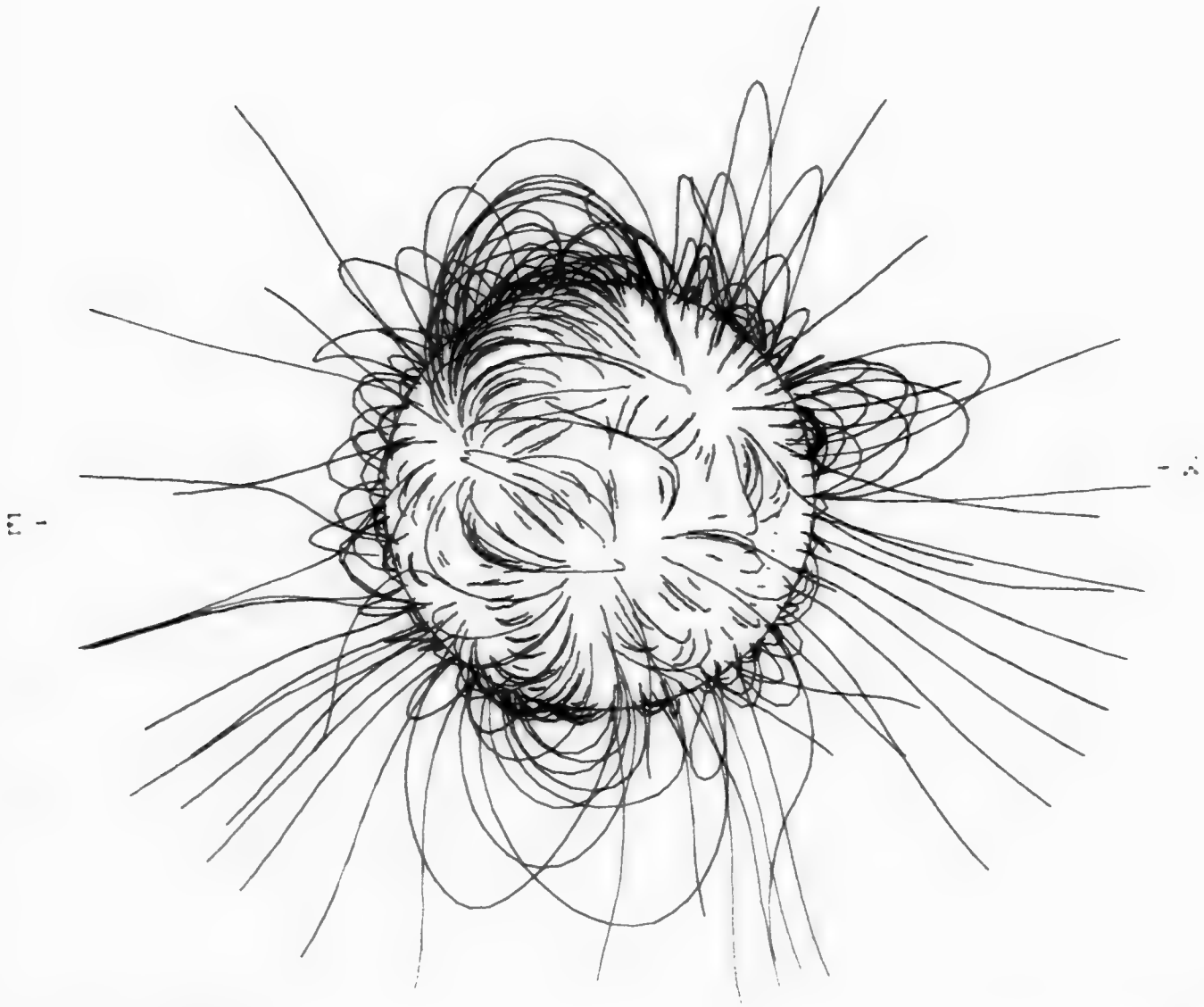
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



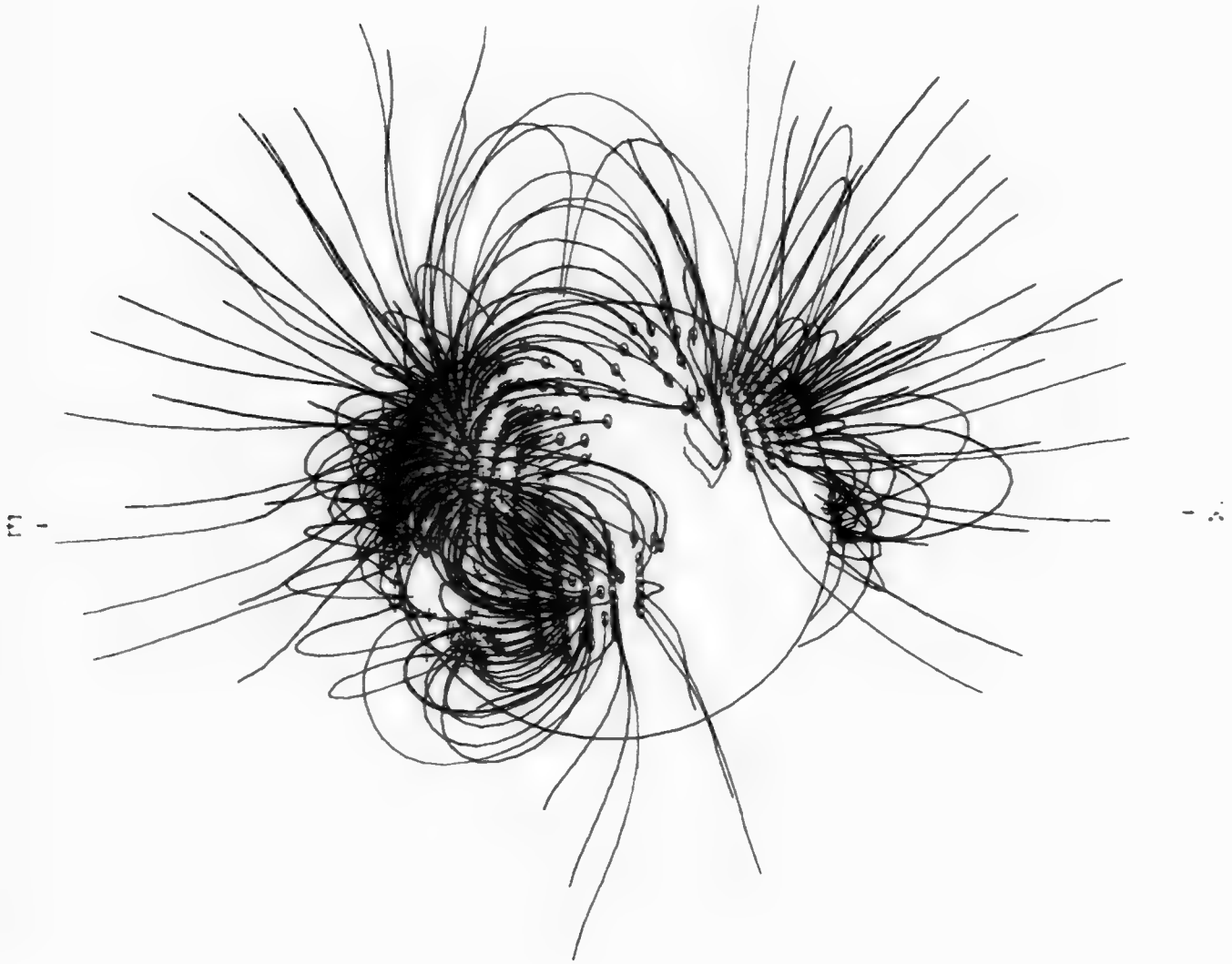
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



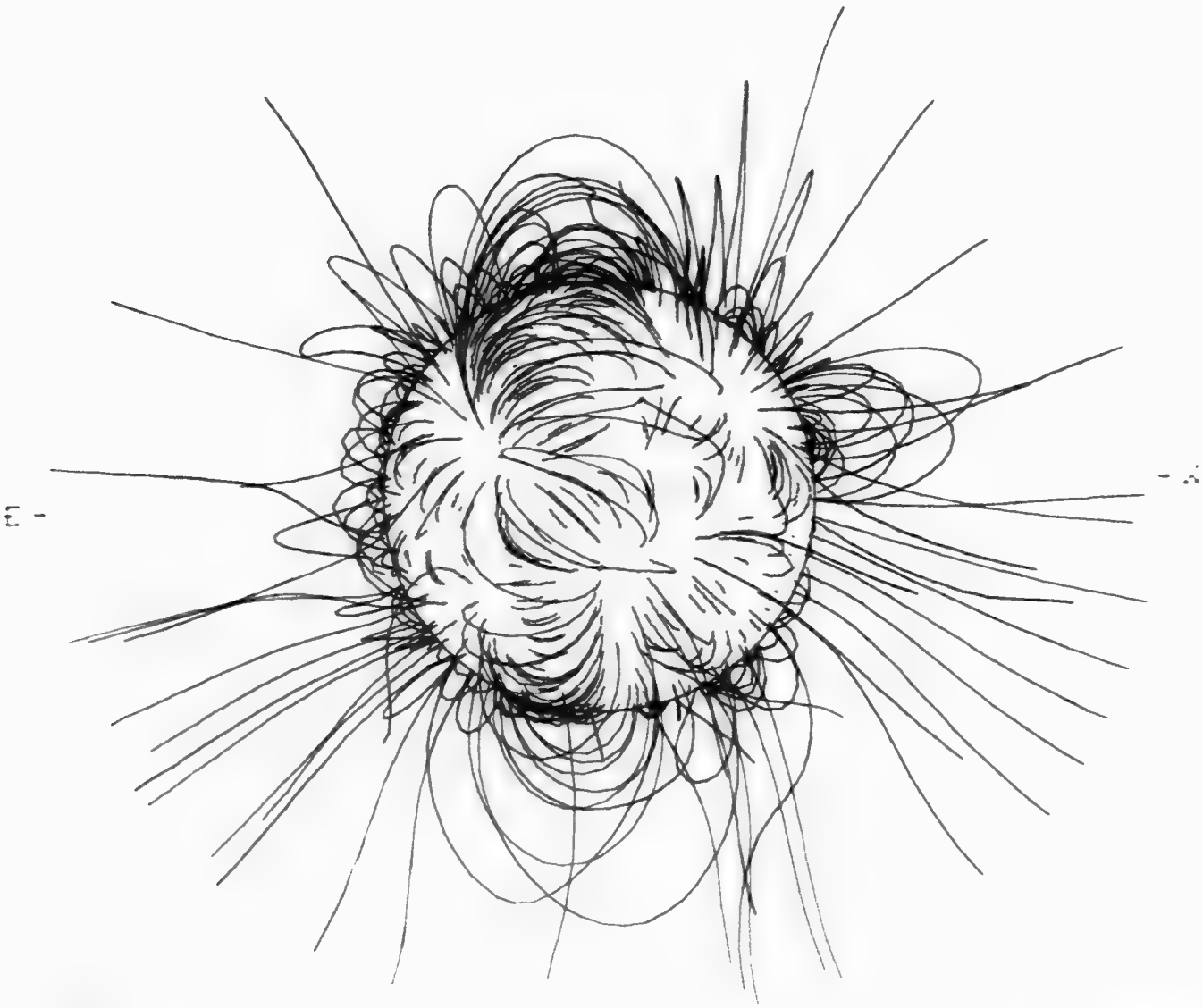
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



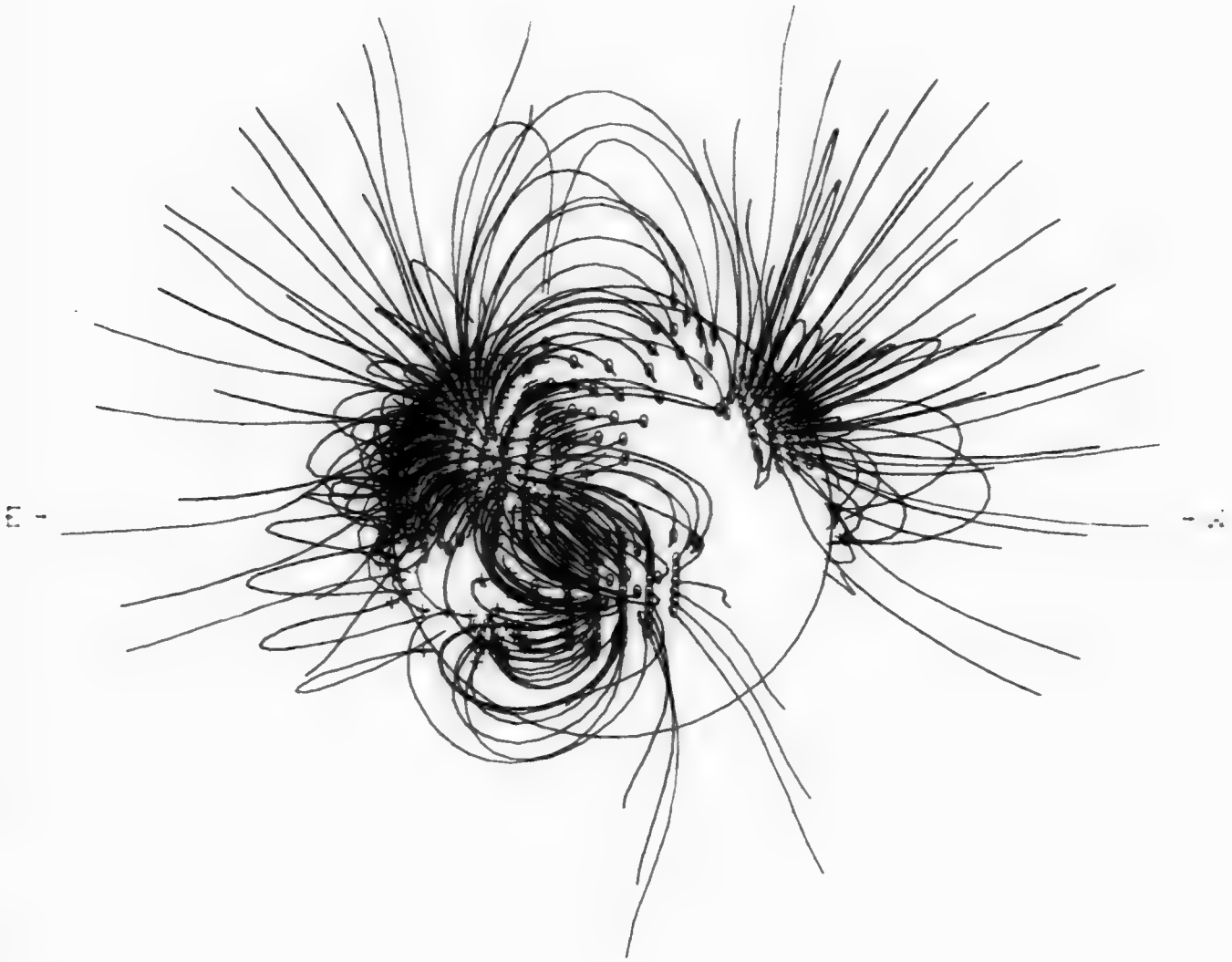
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



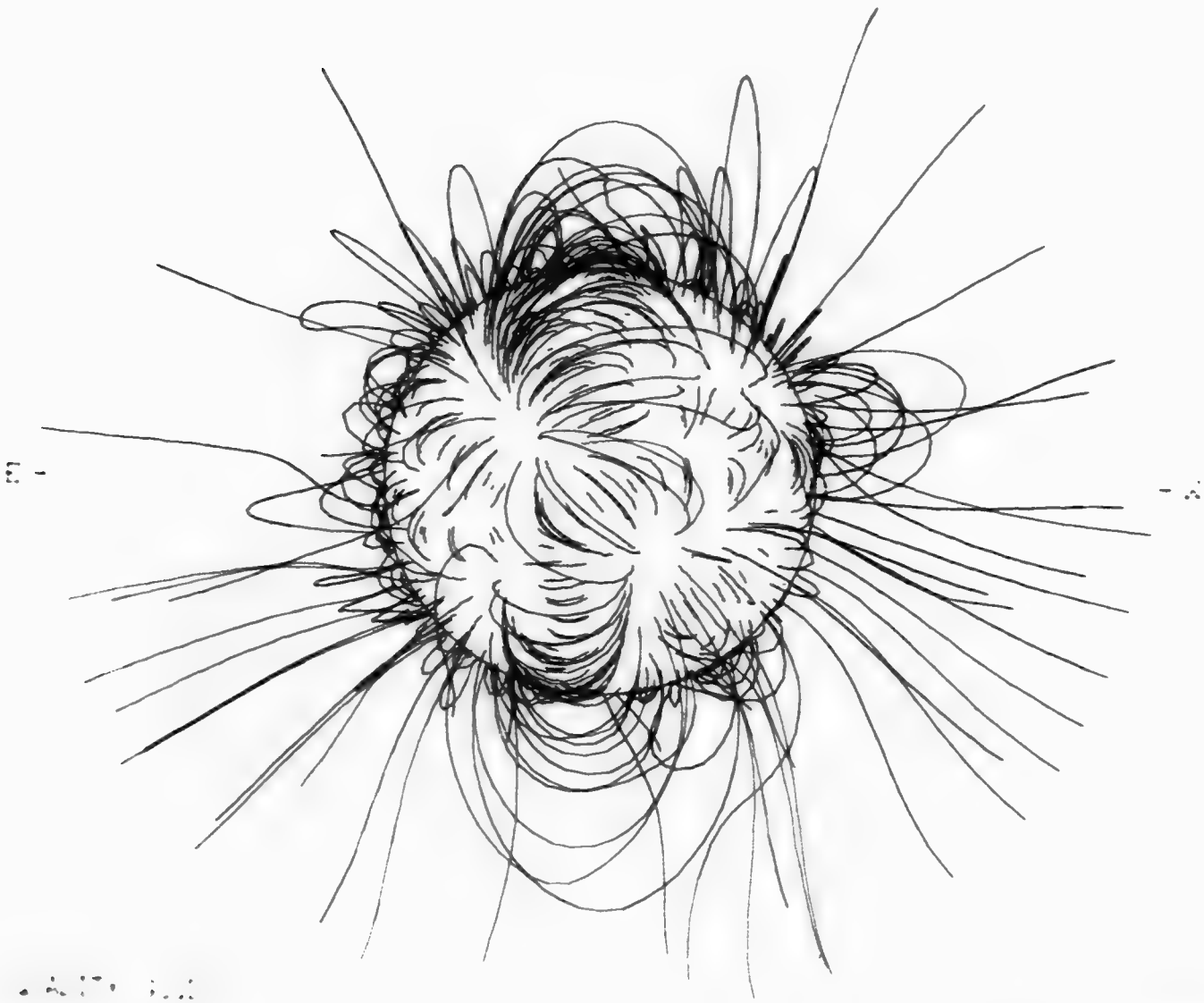
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



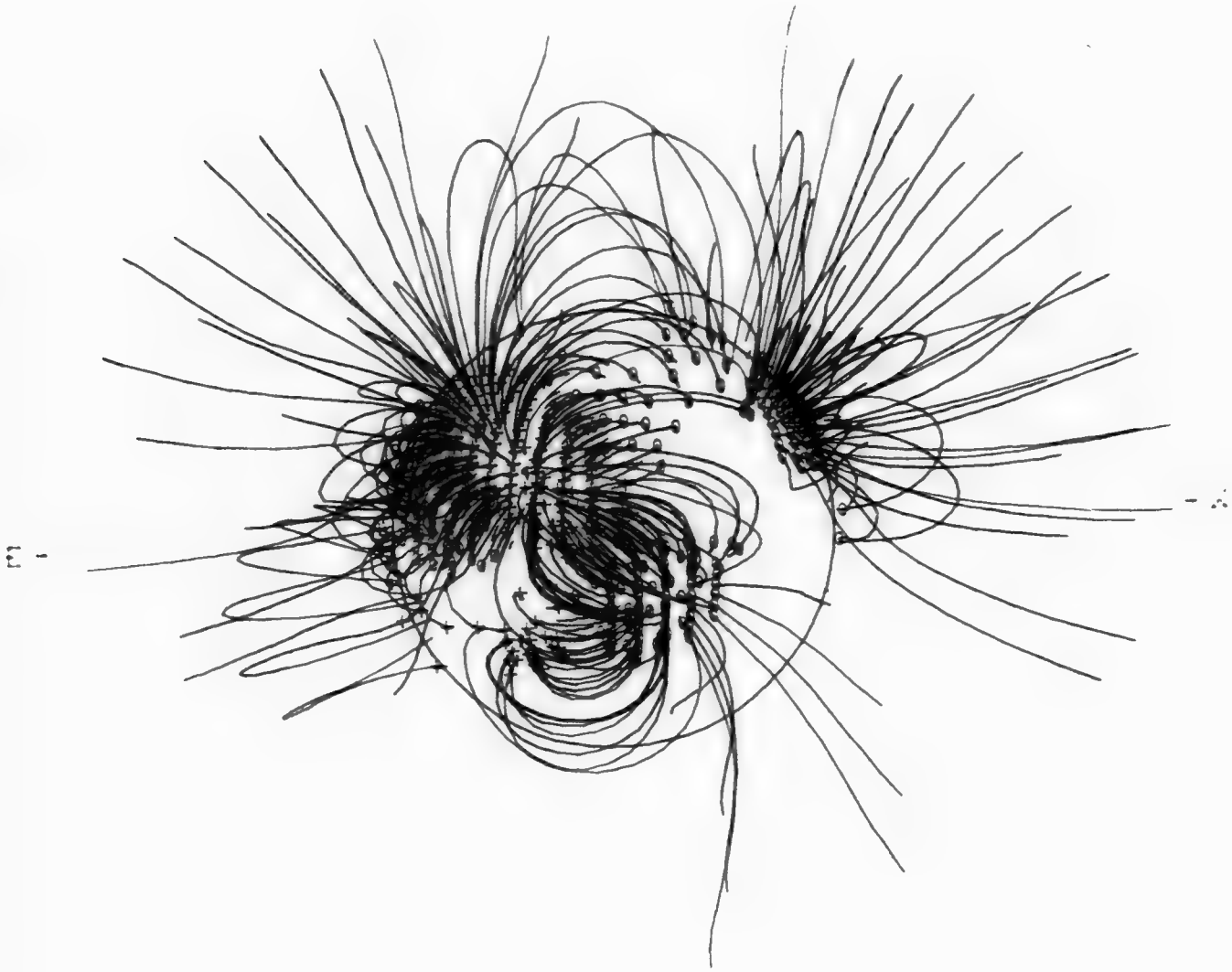
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



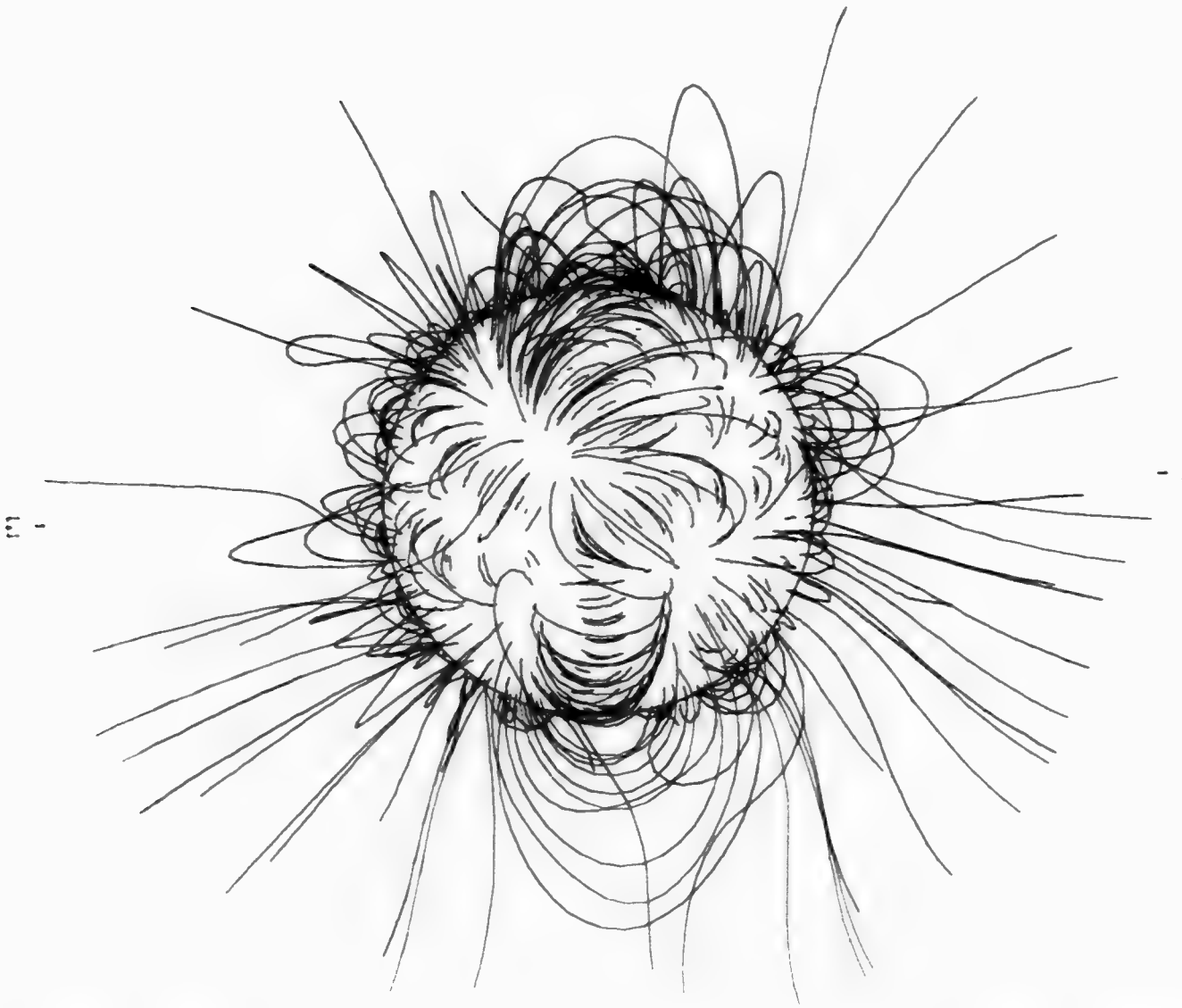
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



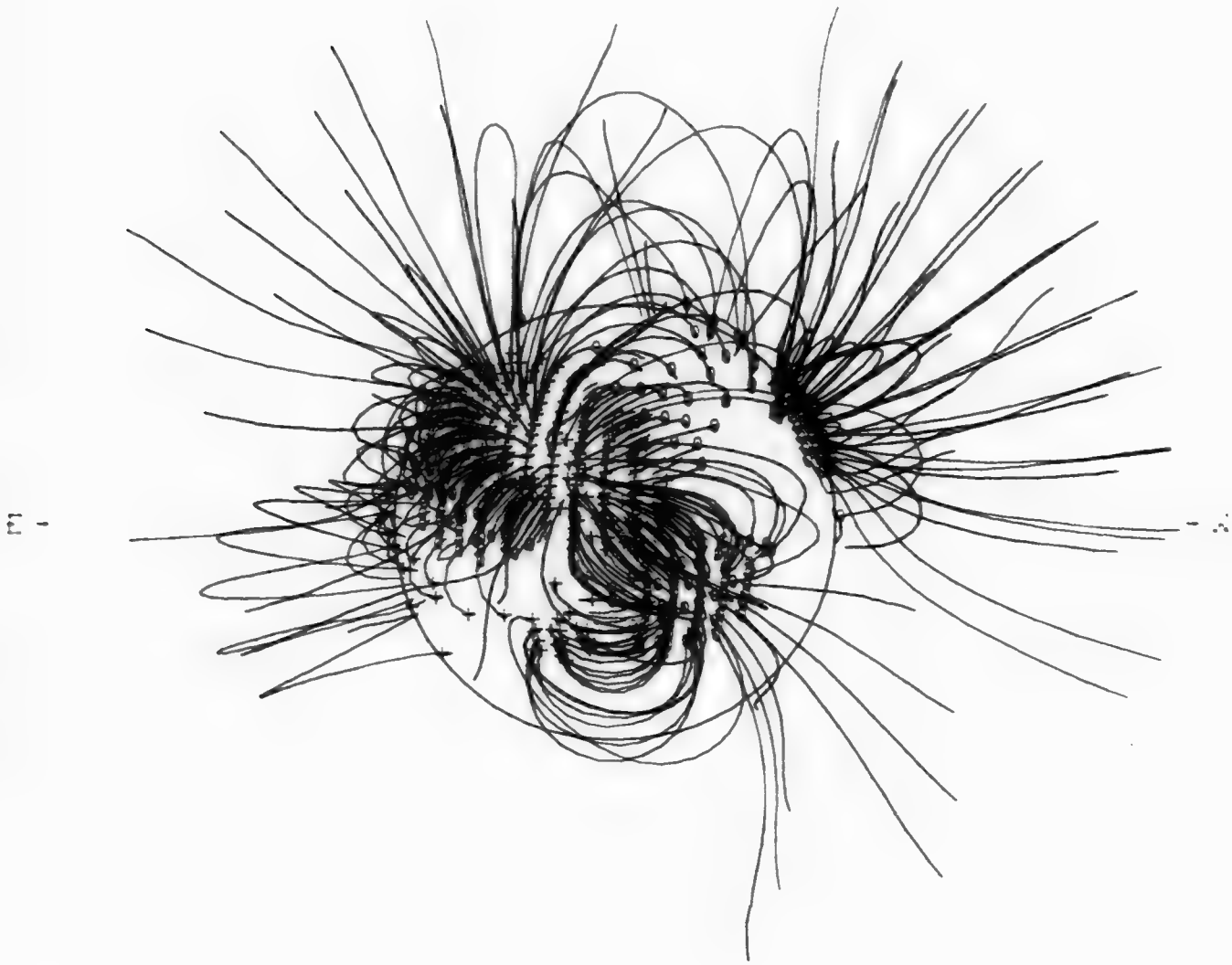
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



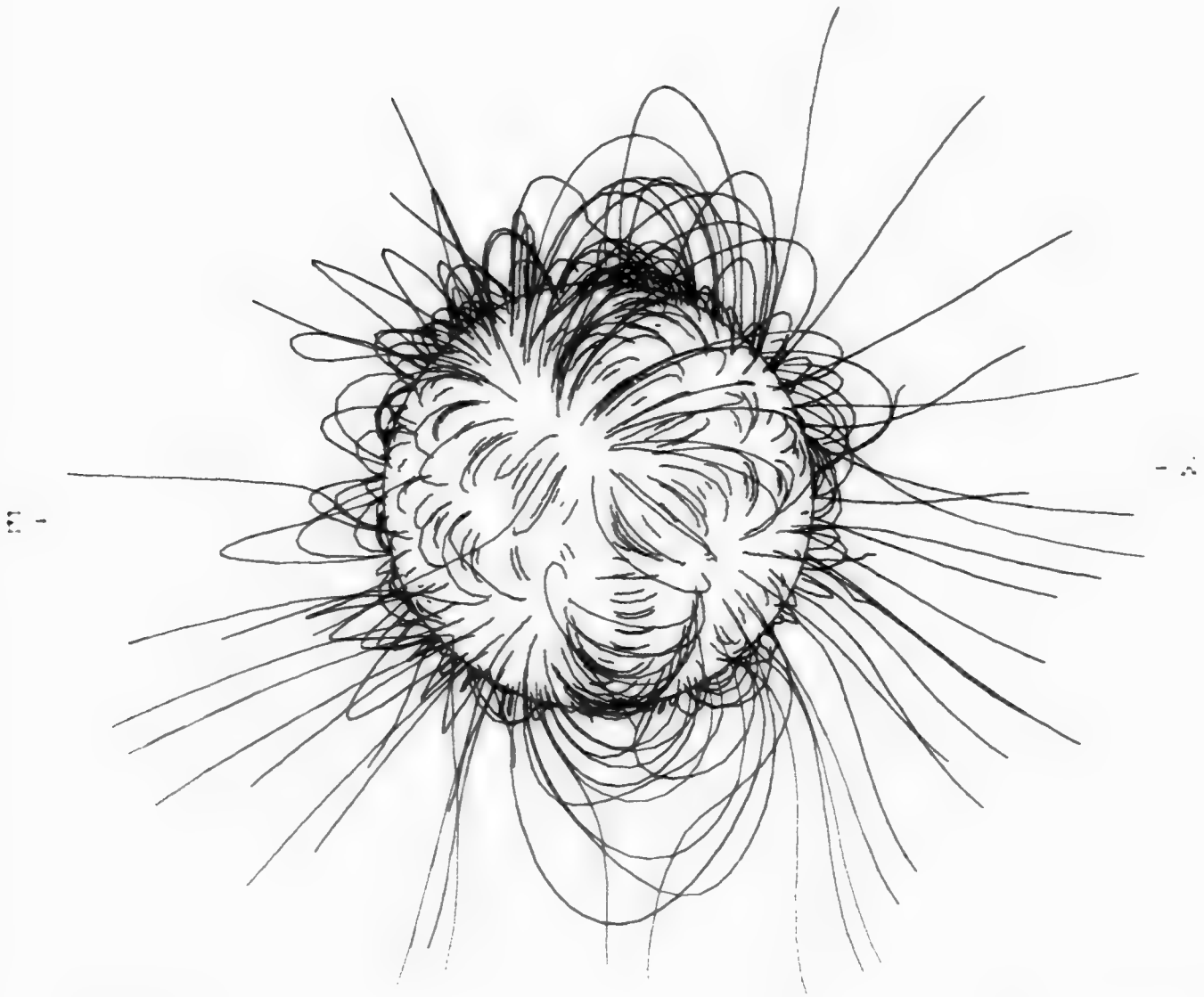
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



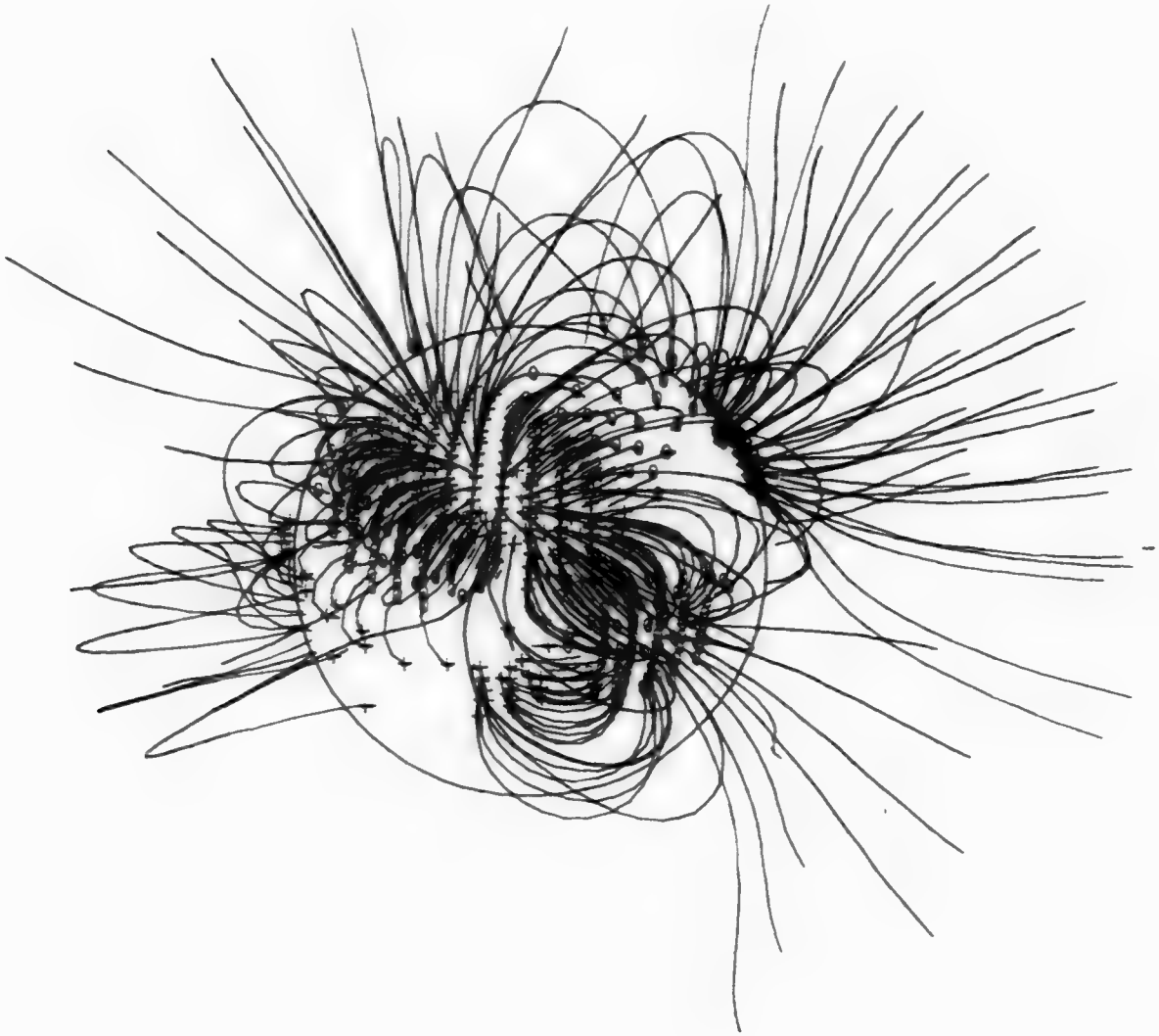
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



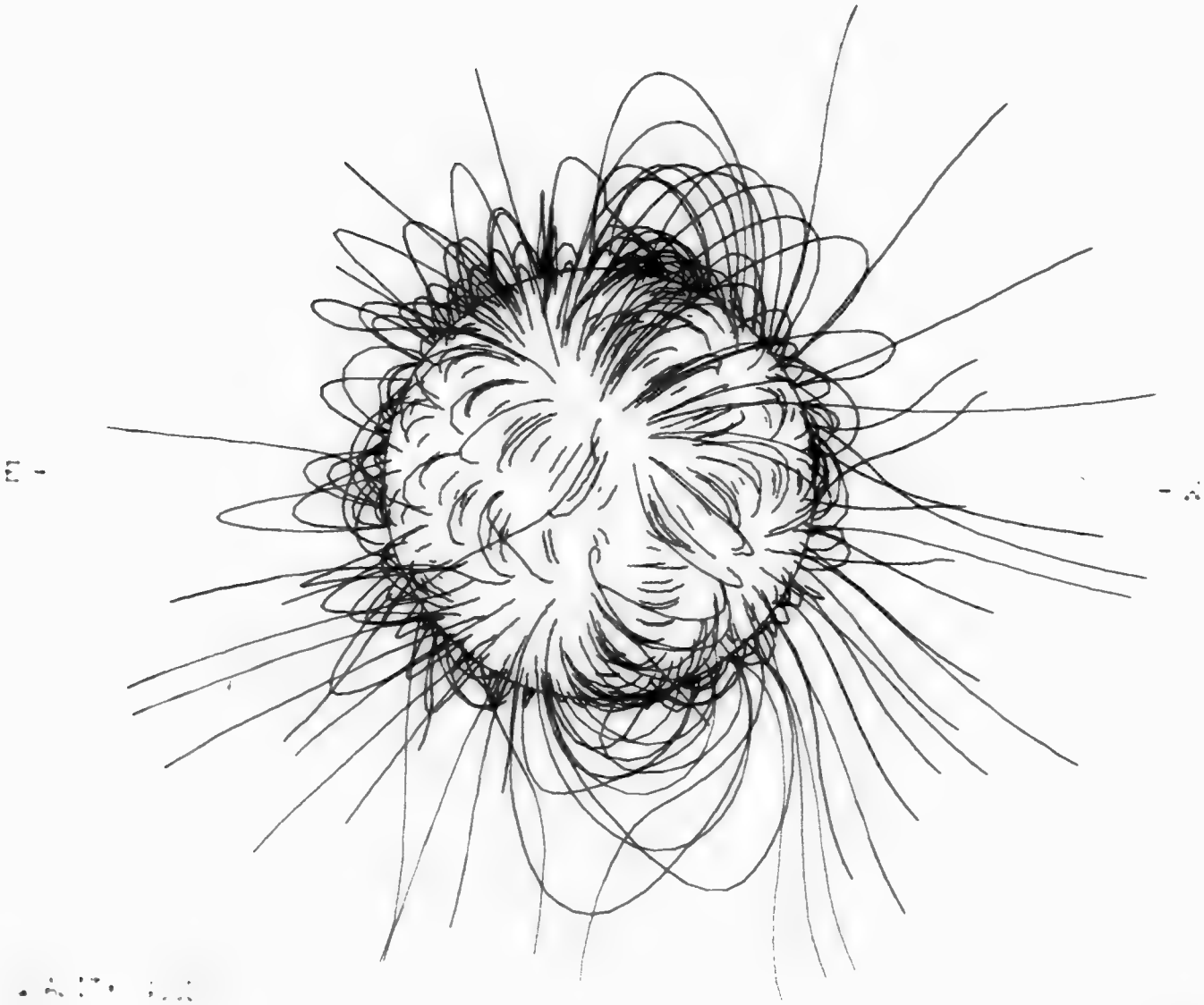
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



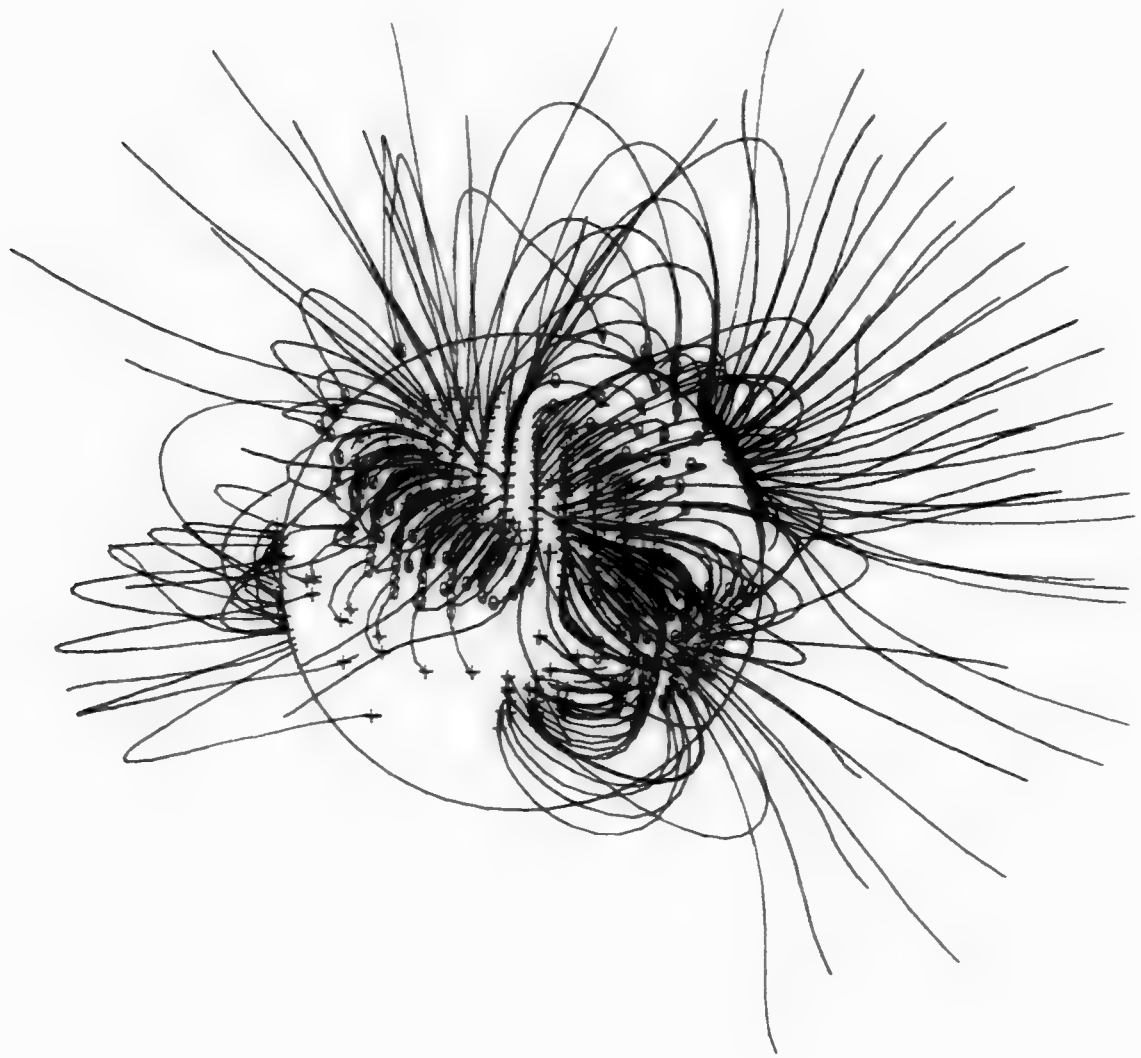
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



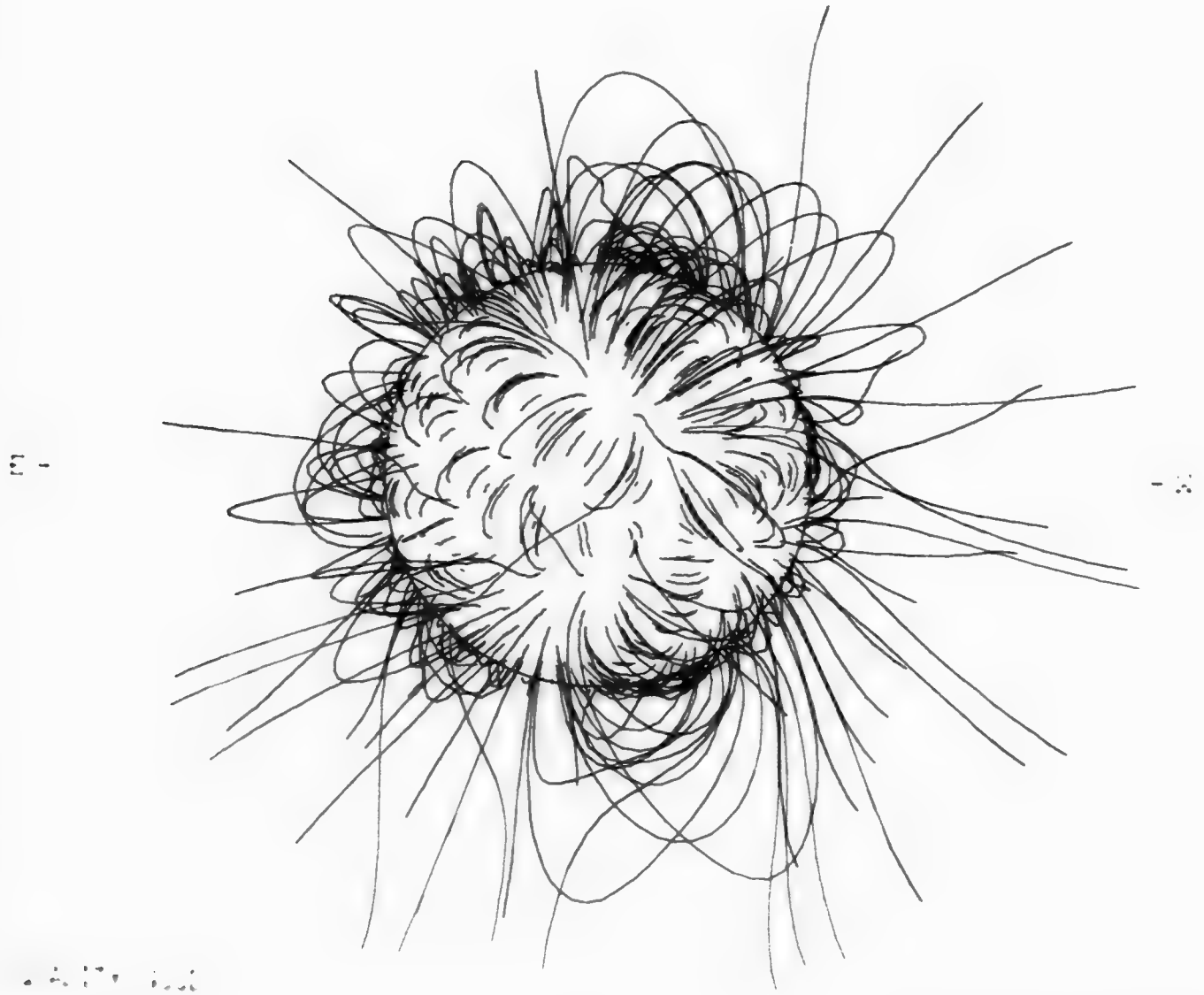
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



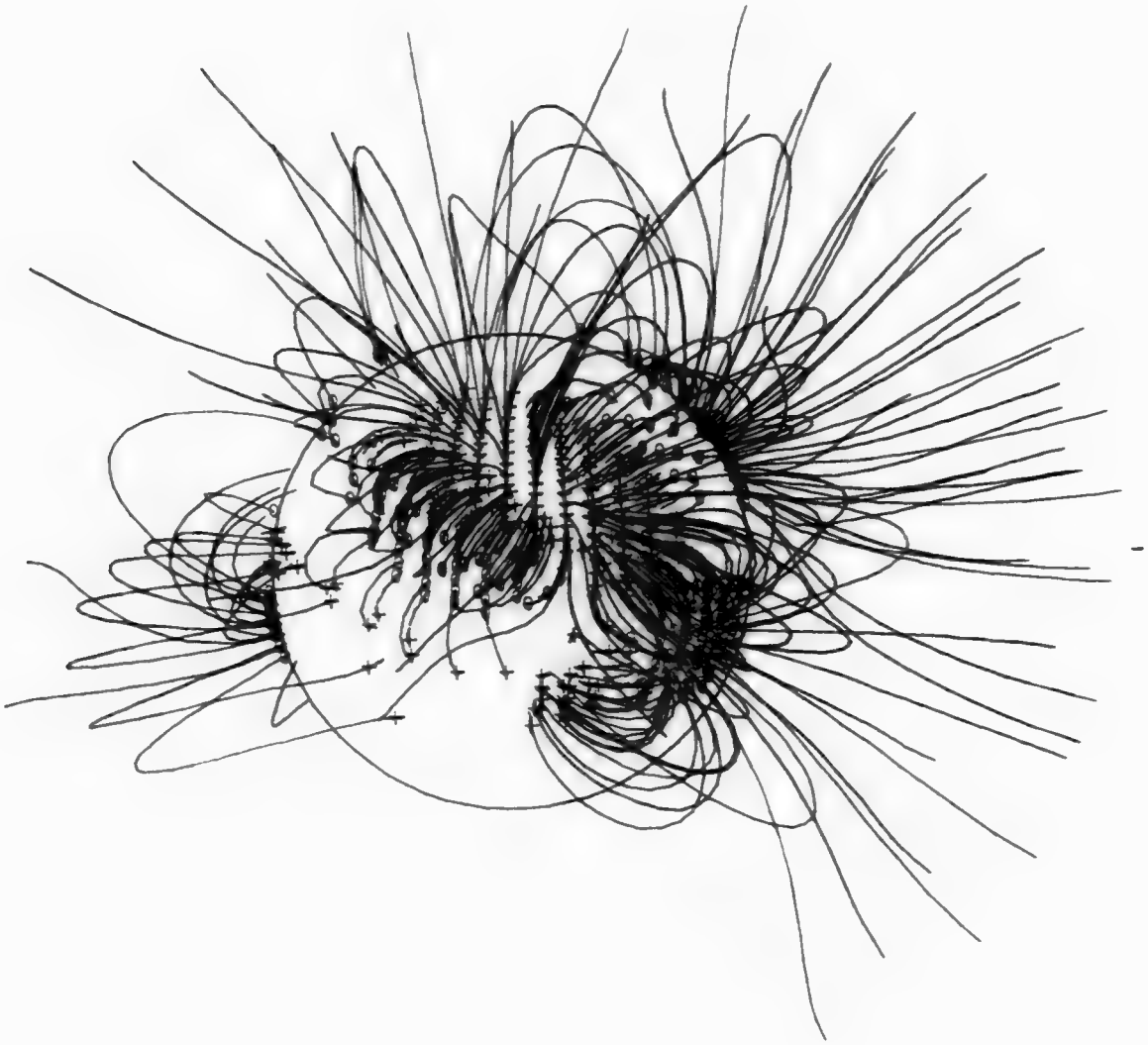
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



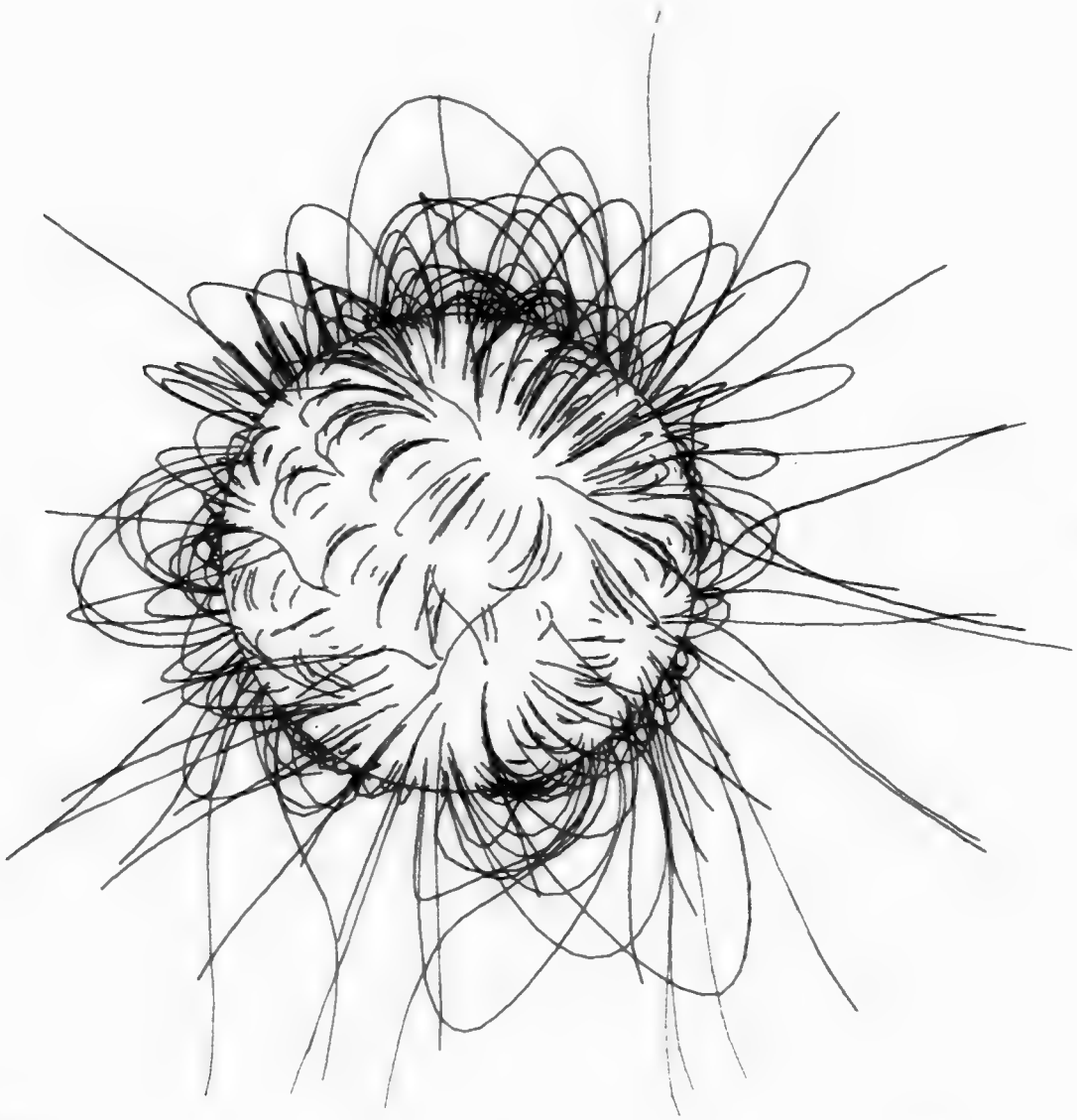
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



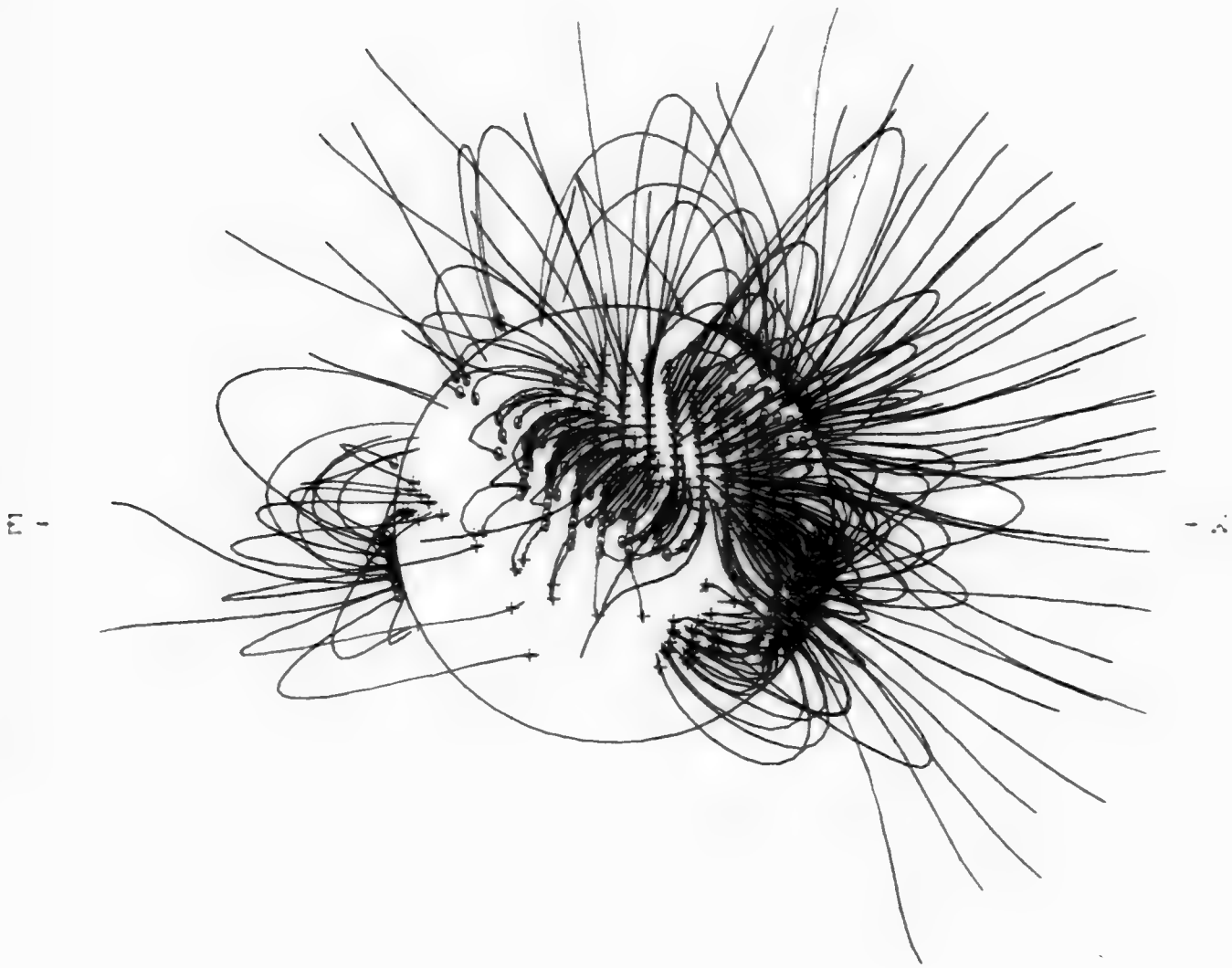
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



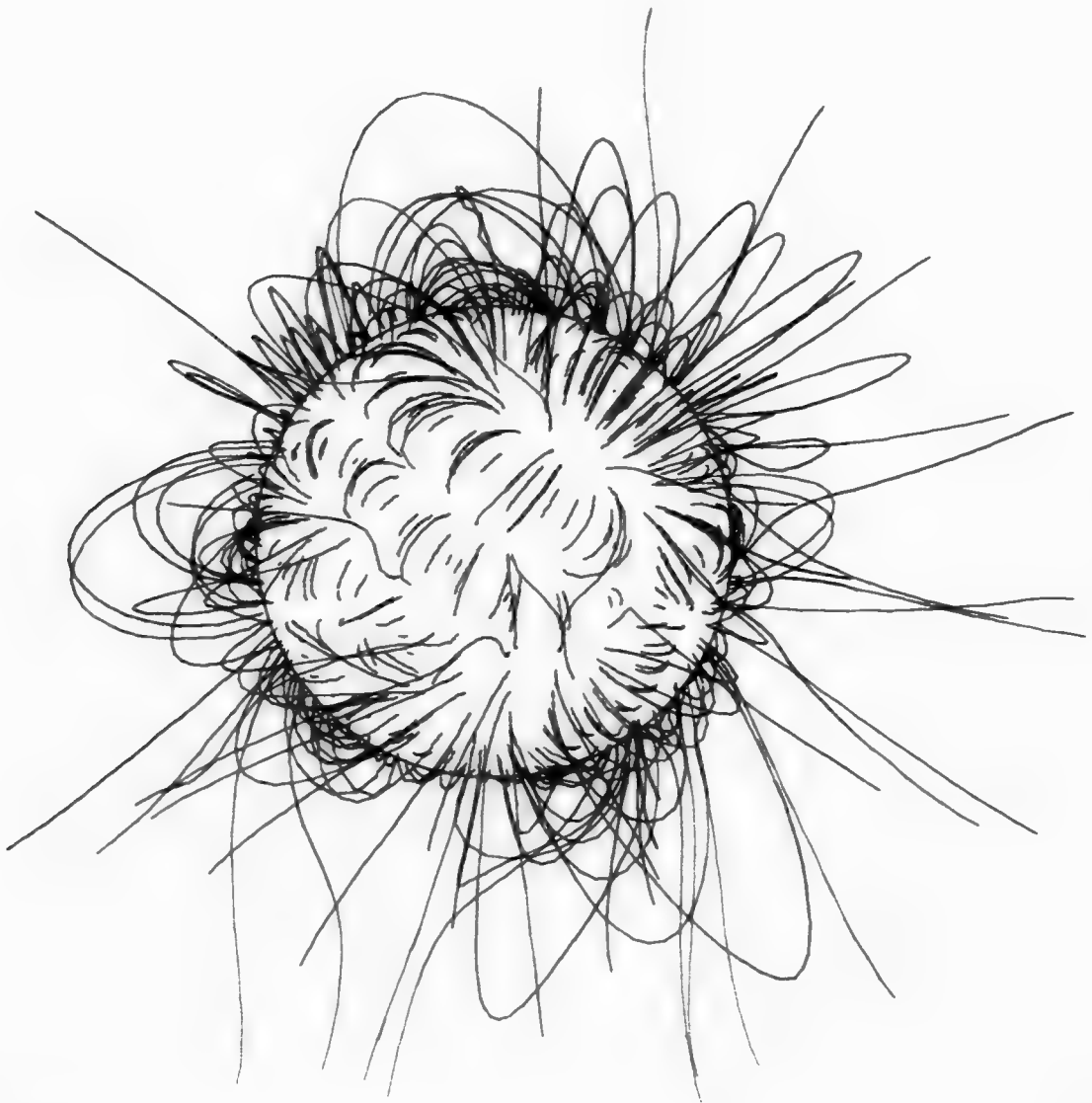
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



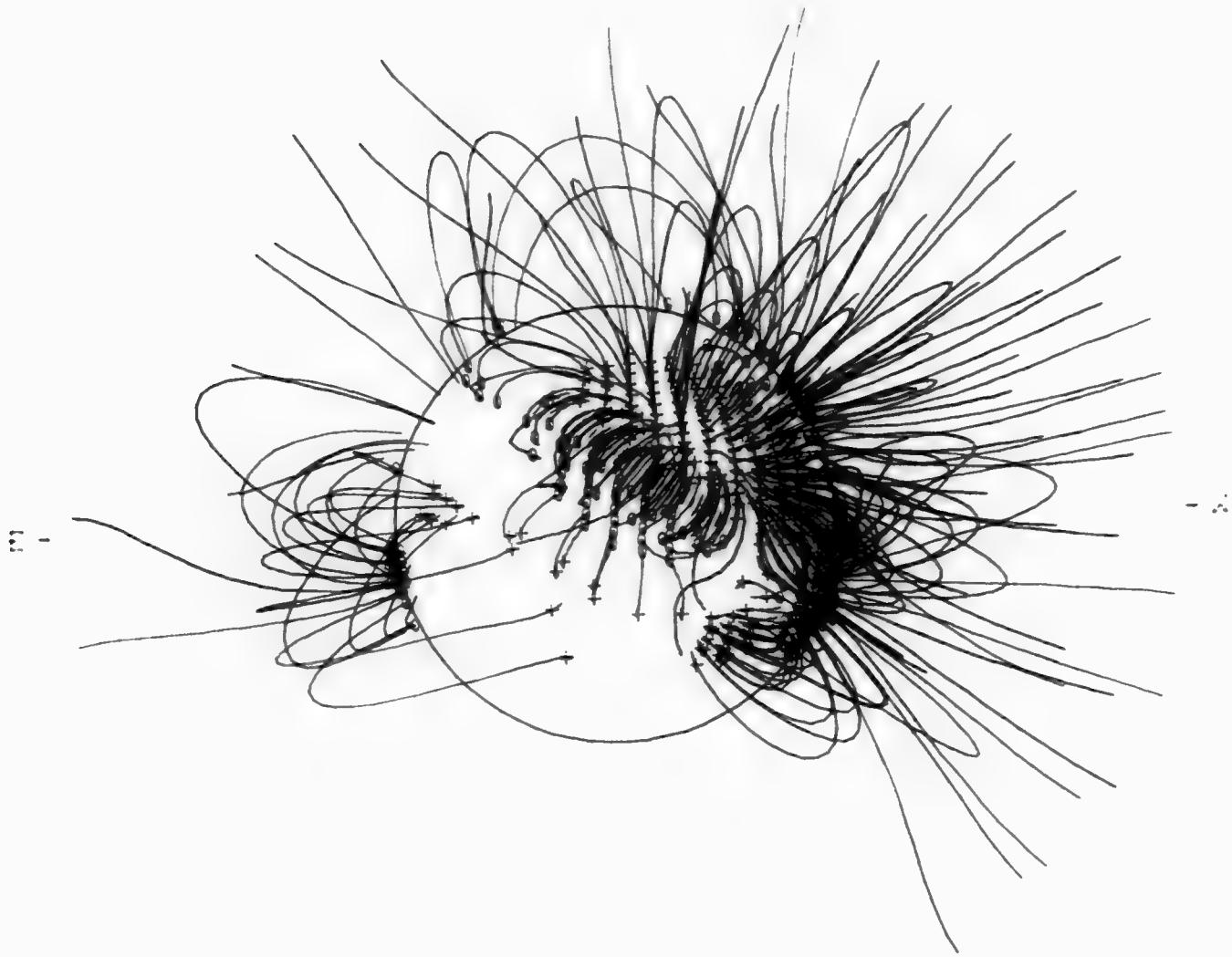
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



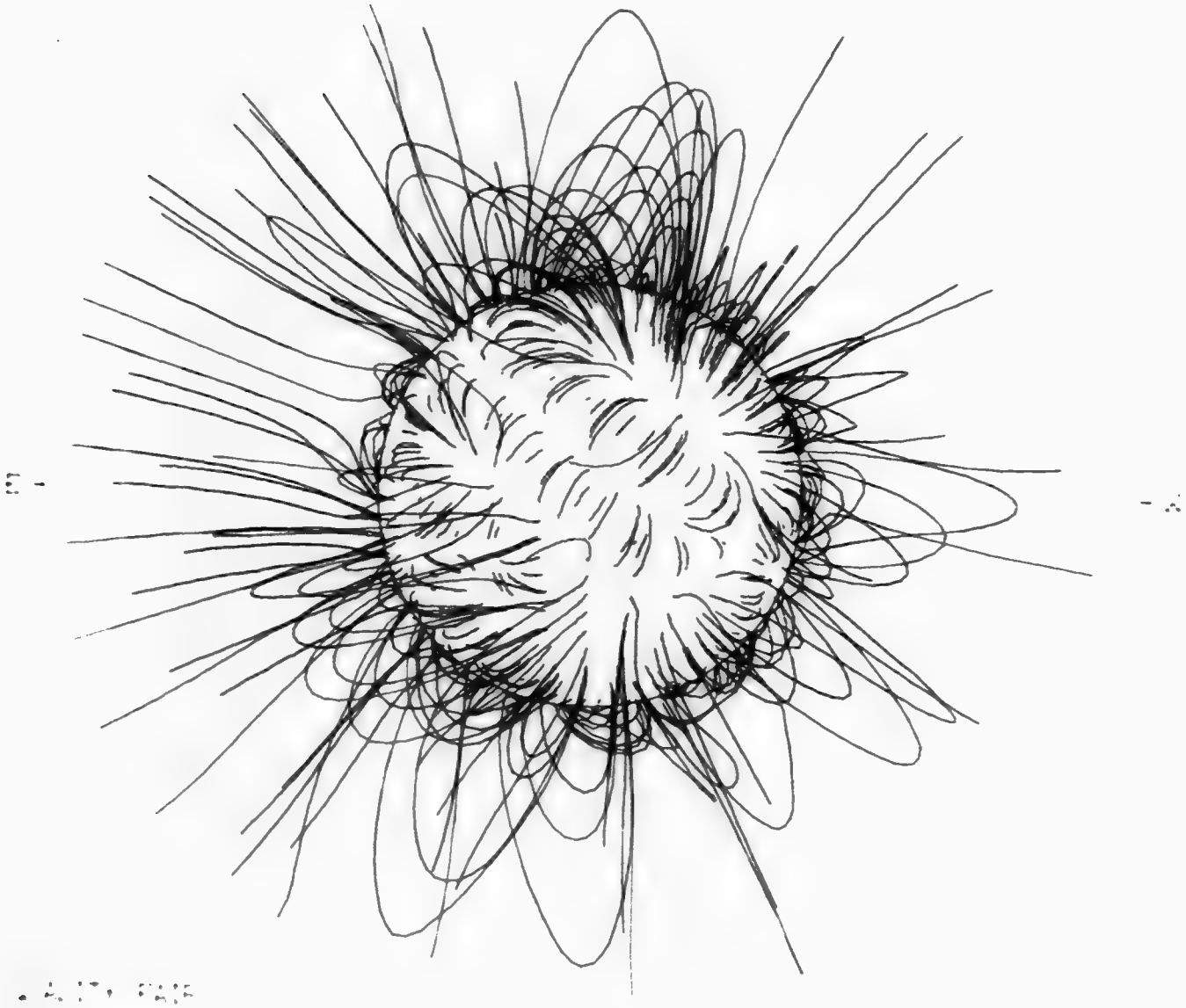
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



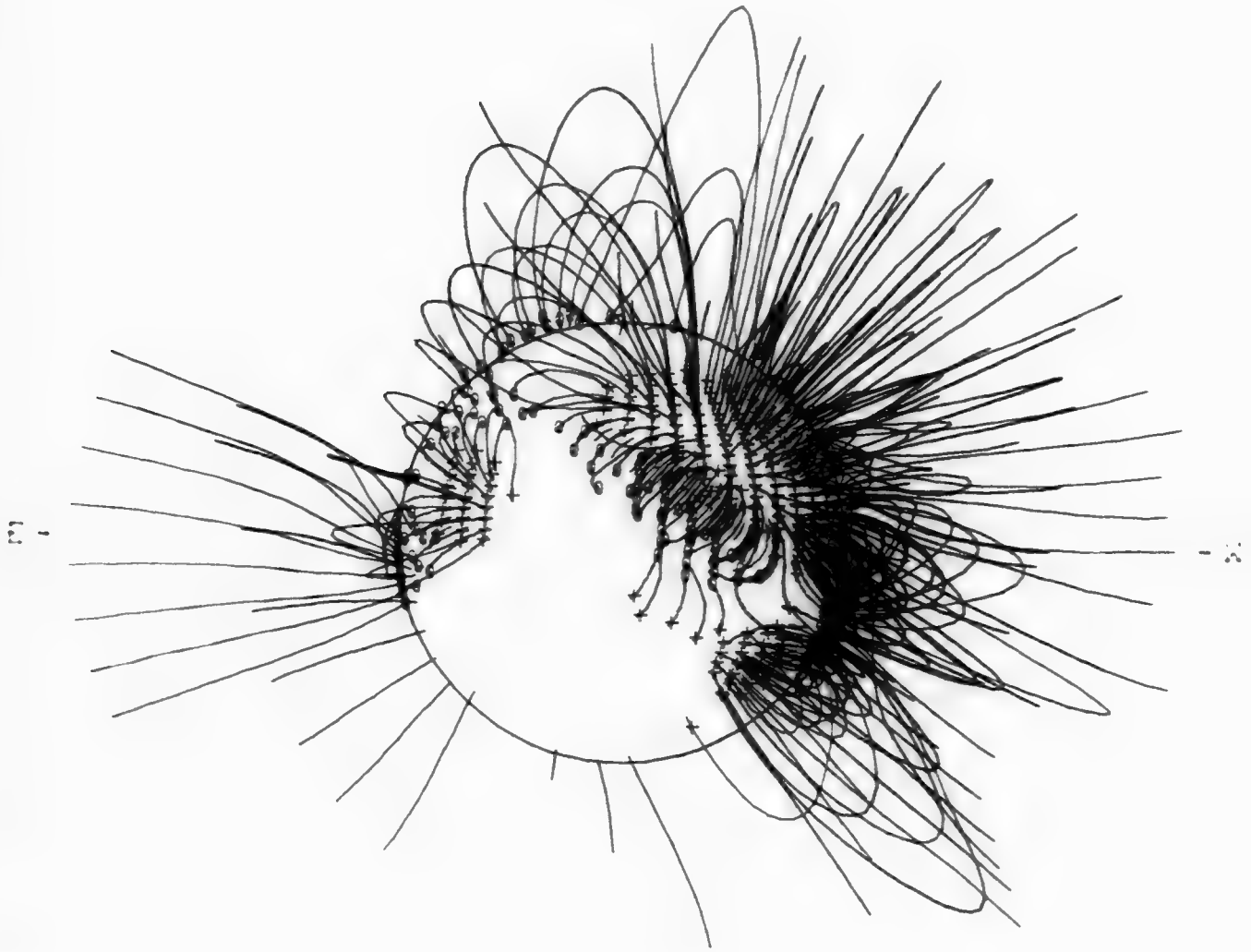
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



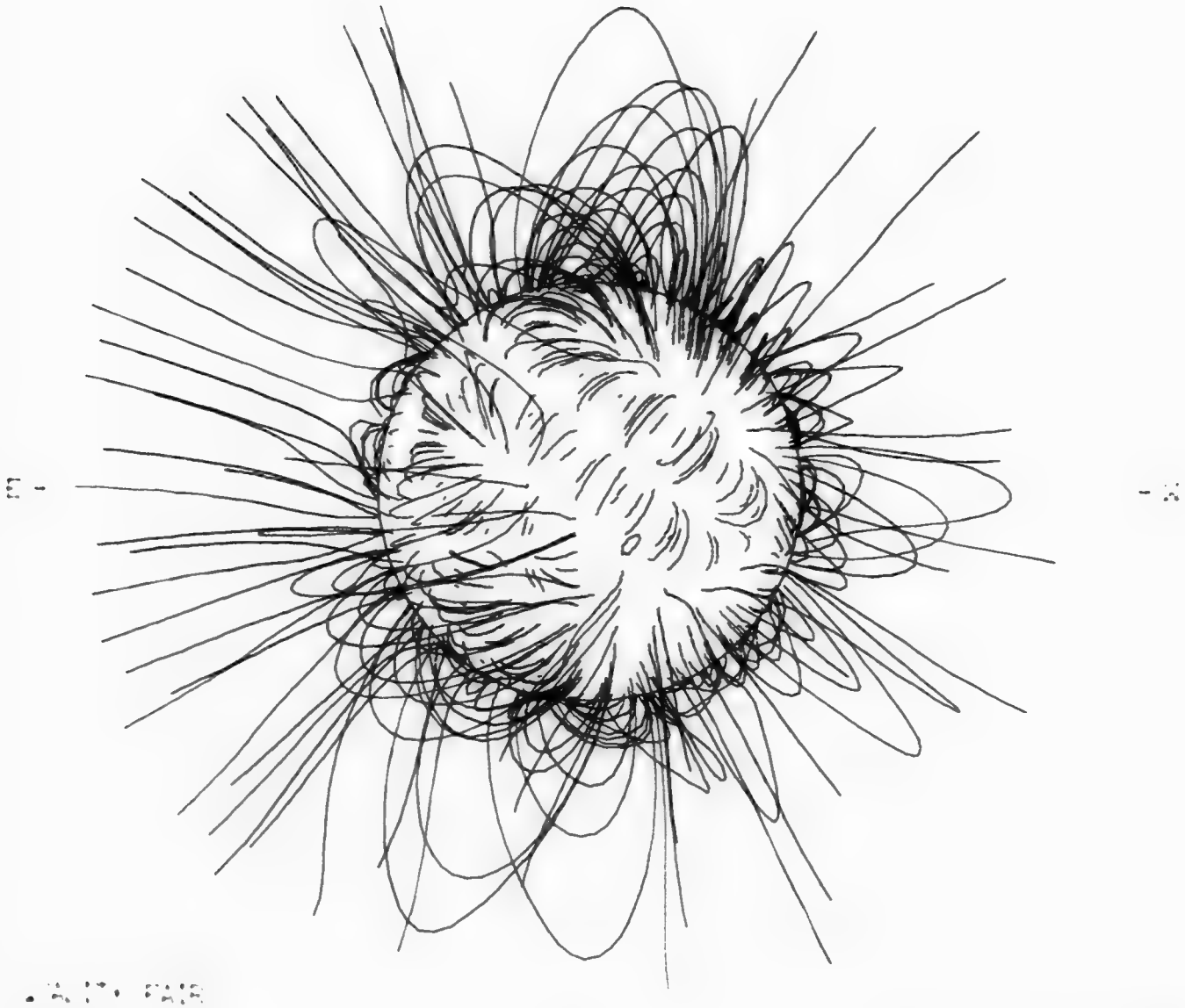
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



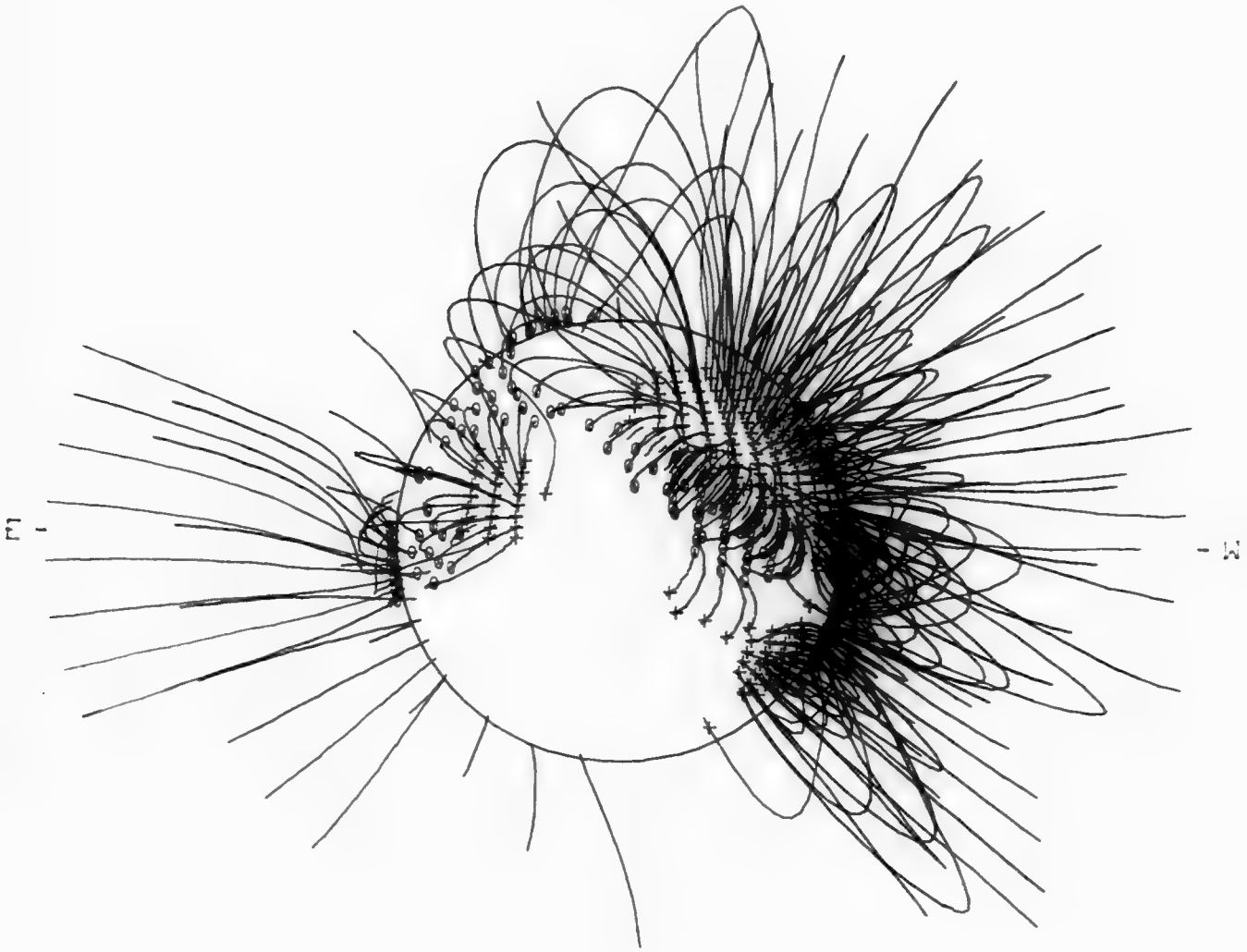
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



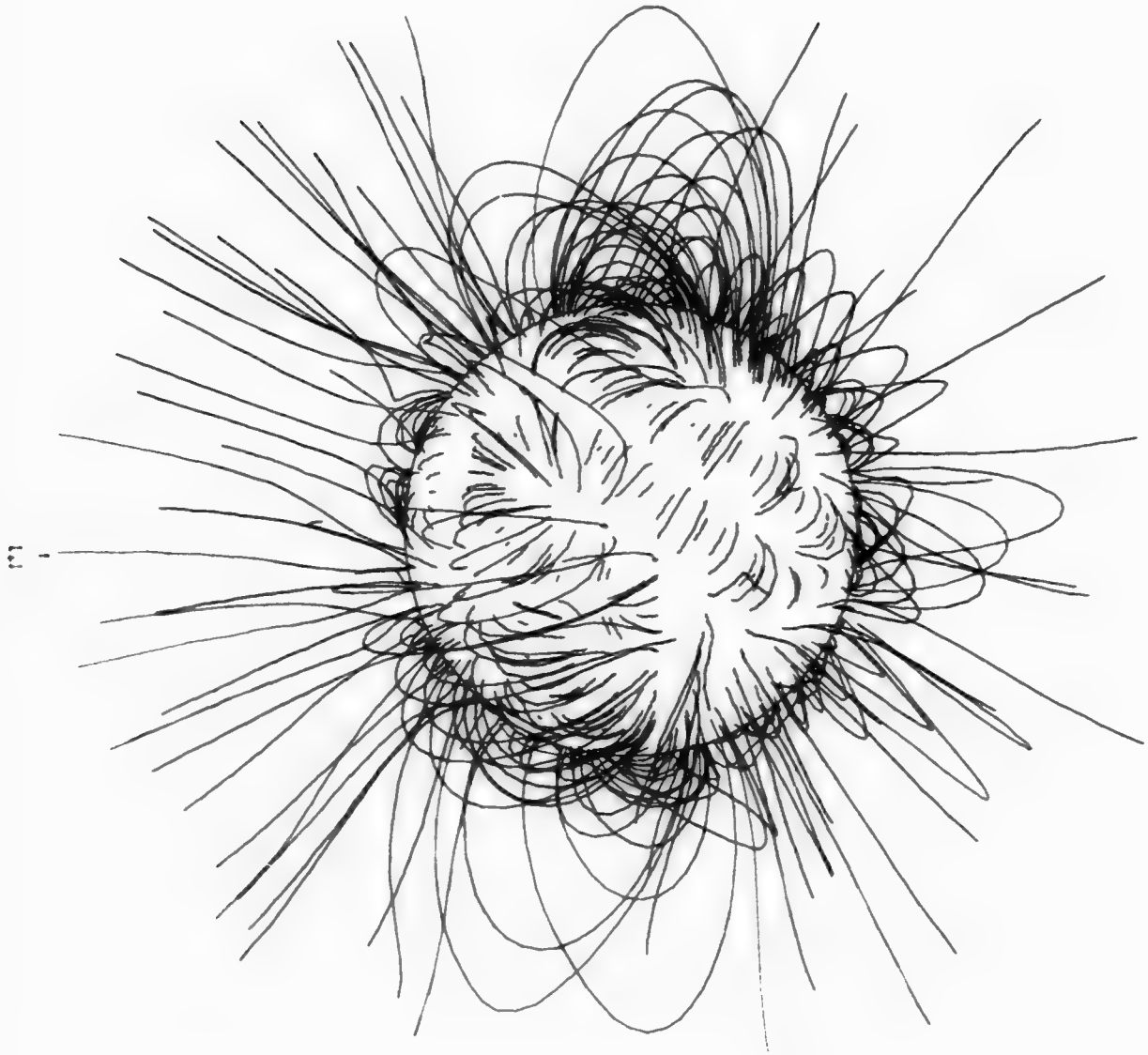
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



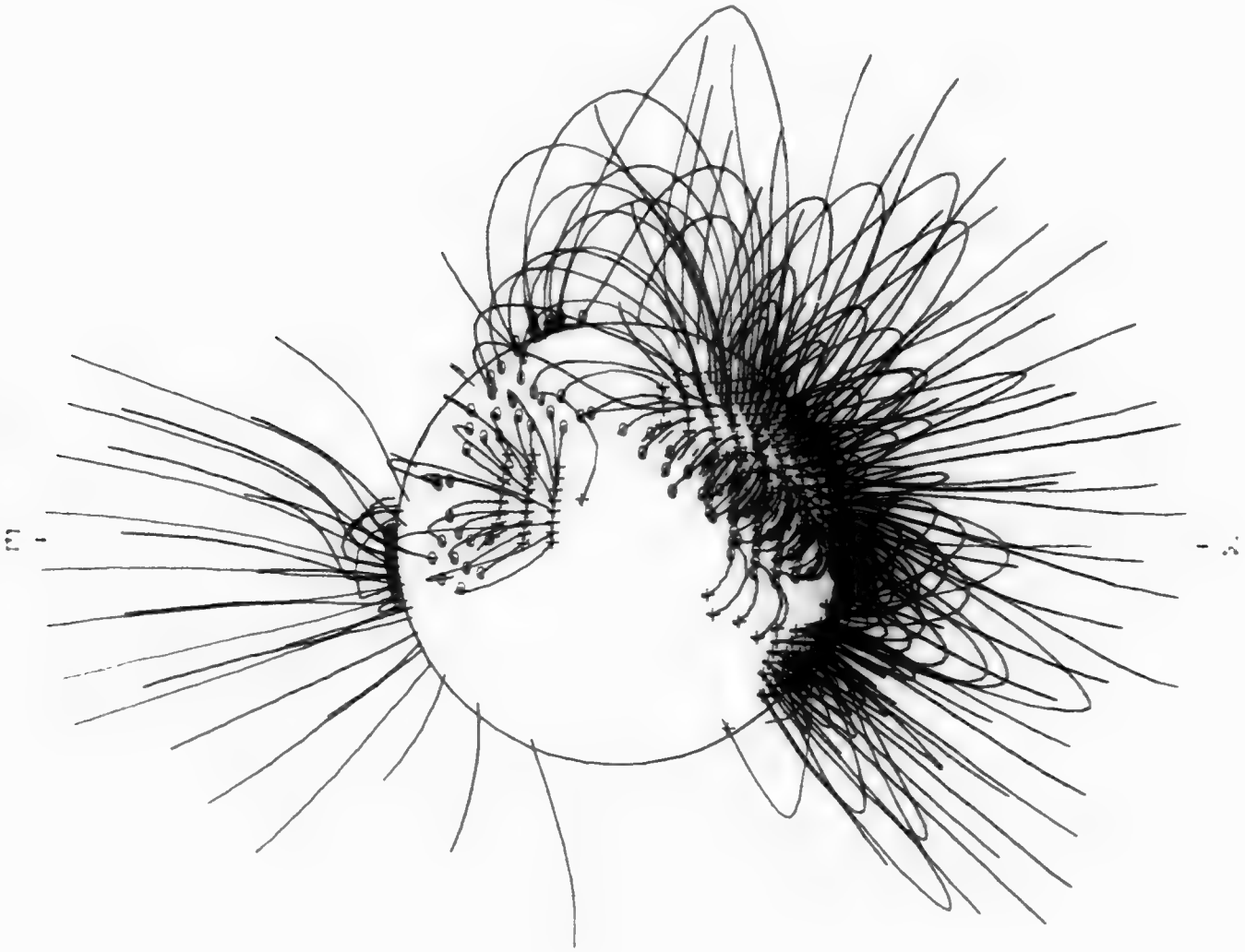
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



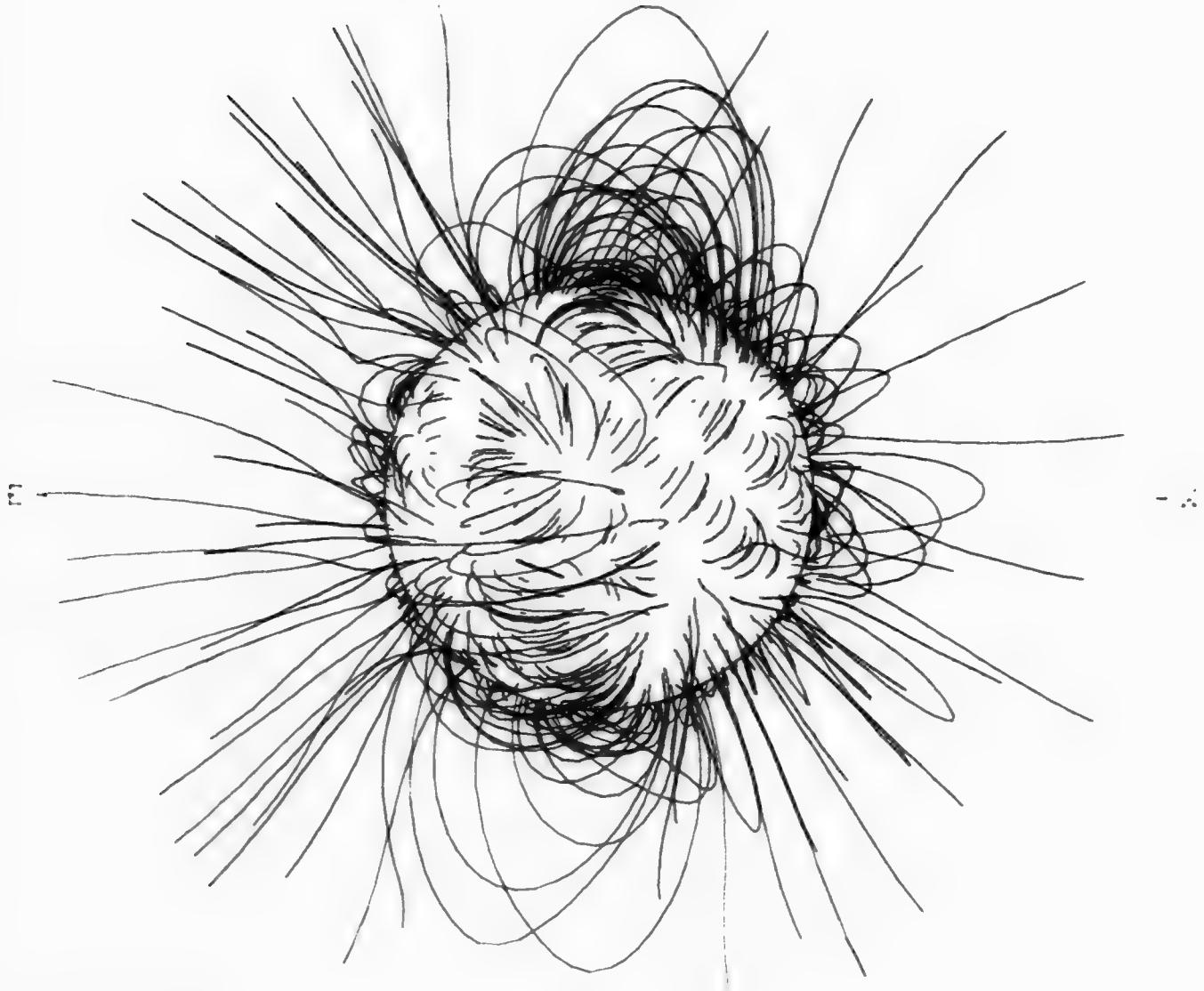
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



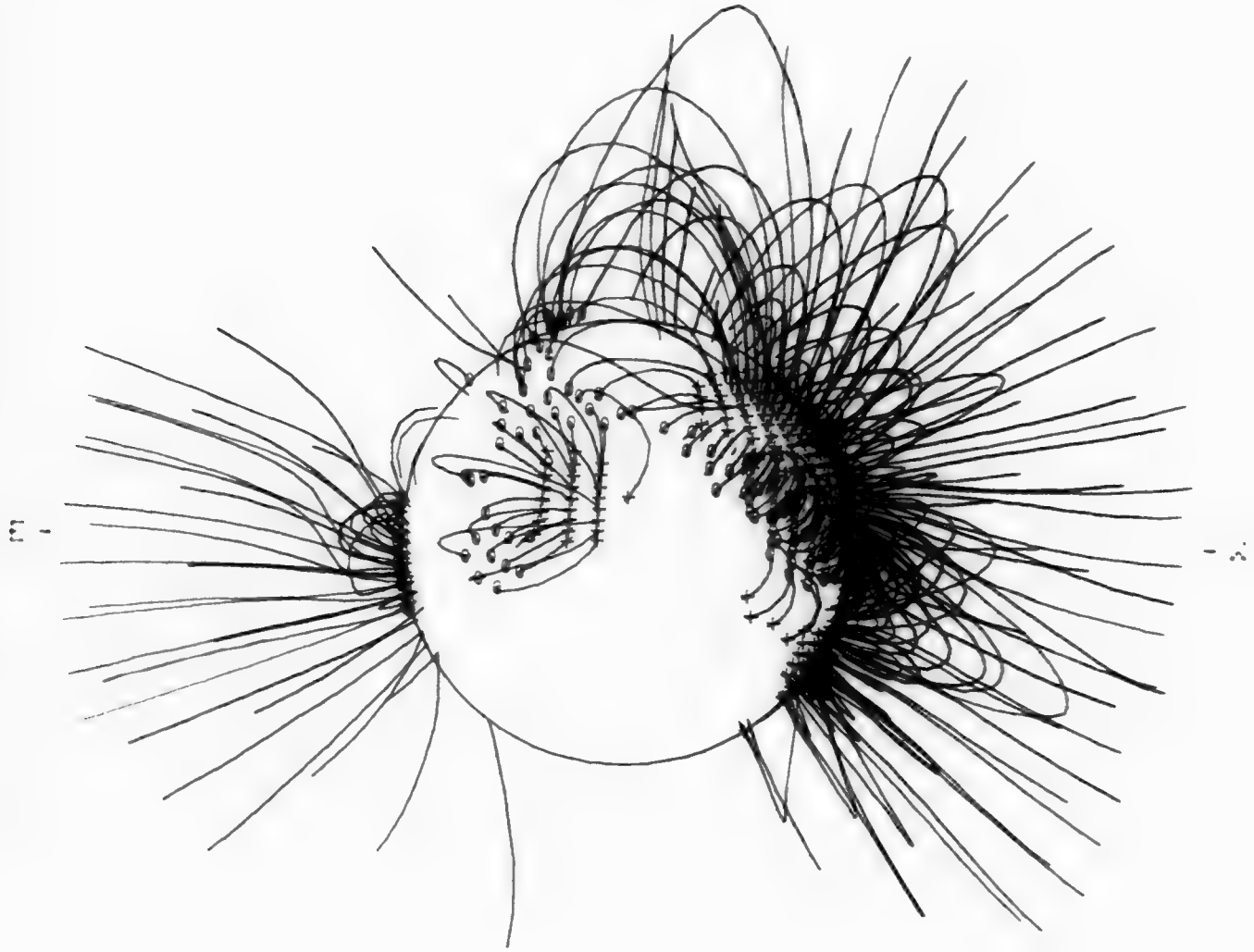
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



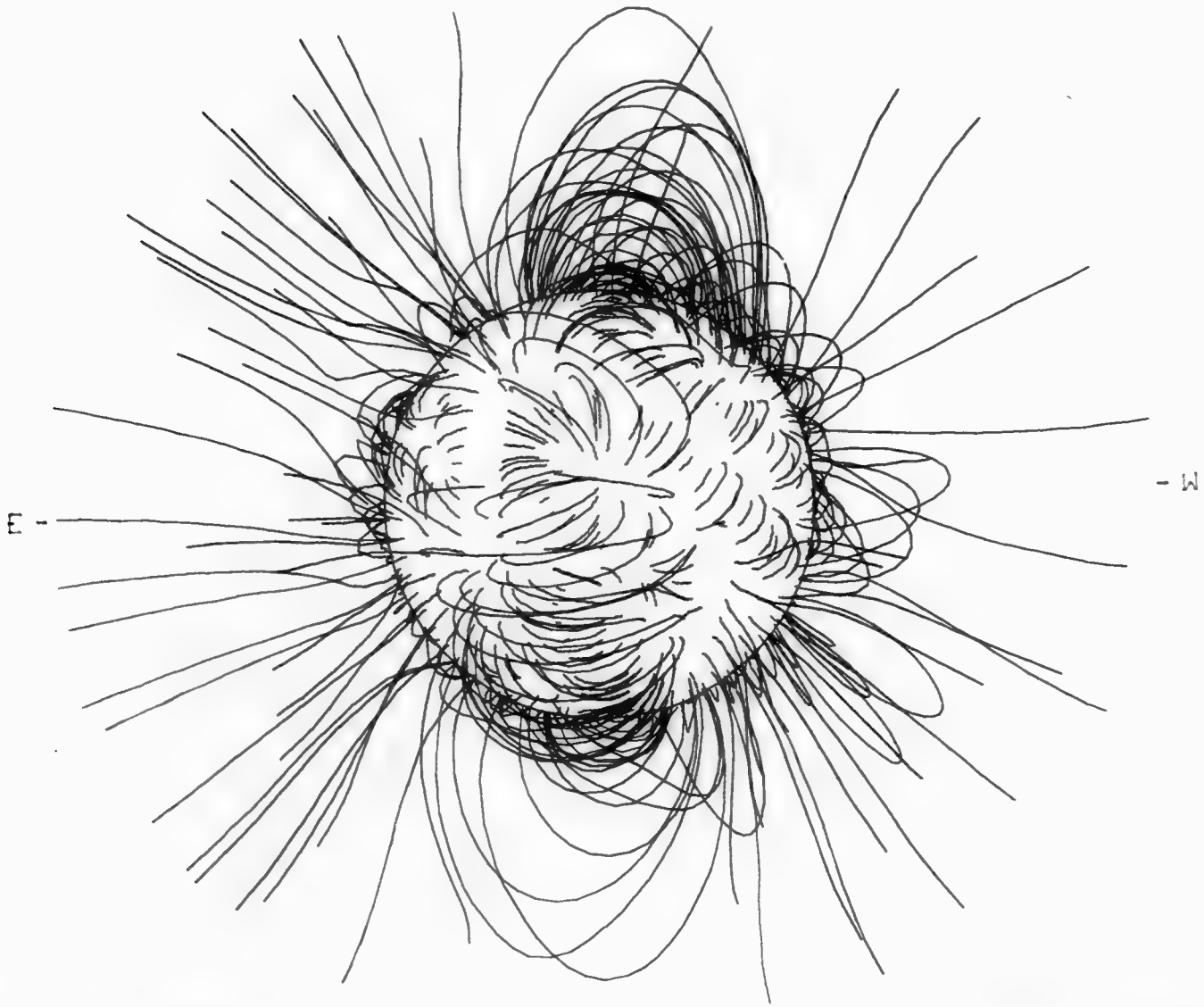
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



QUALITY FAIR

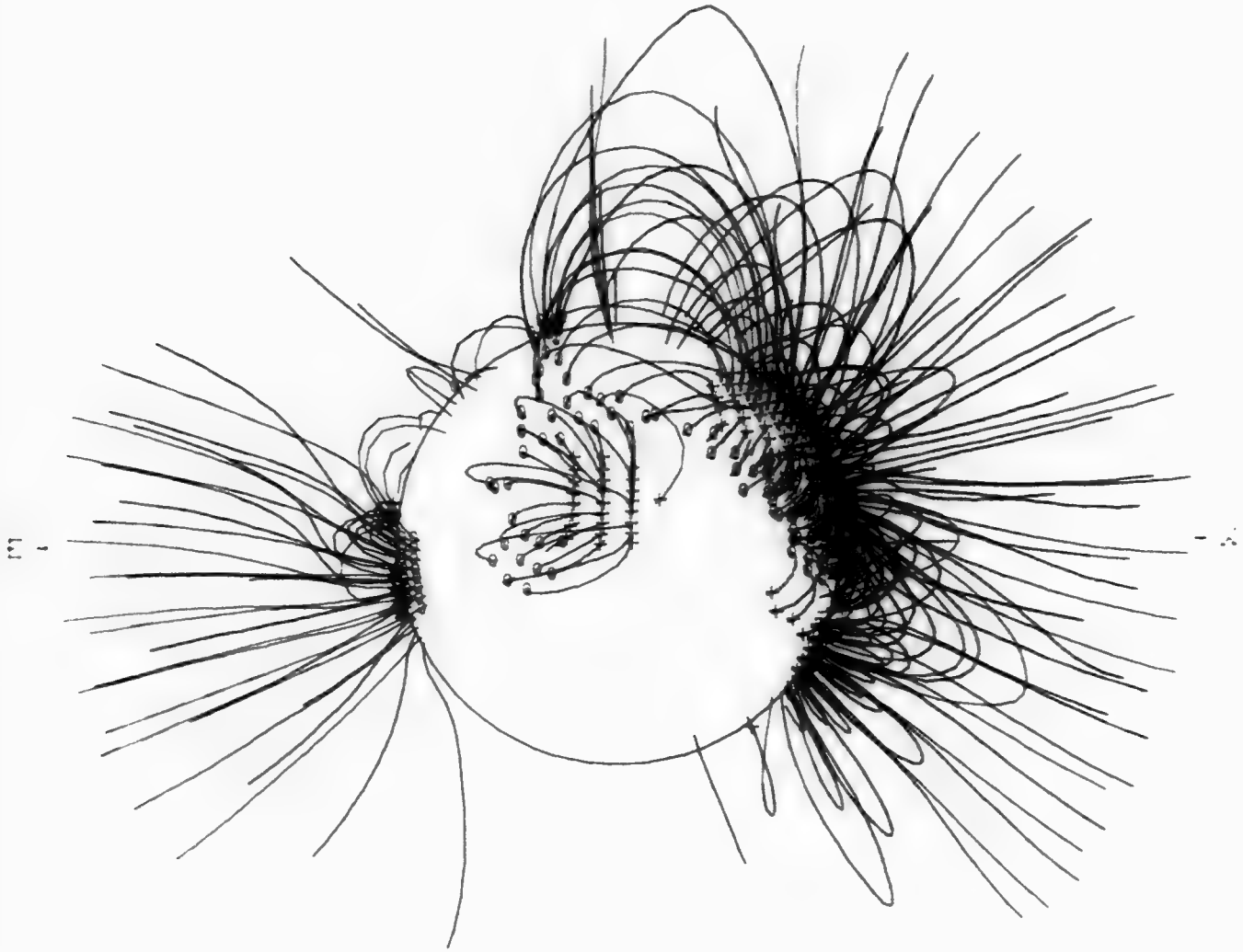
POLES DIRECT

DATA WINDOW 1547.69

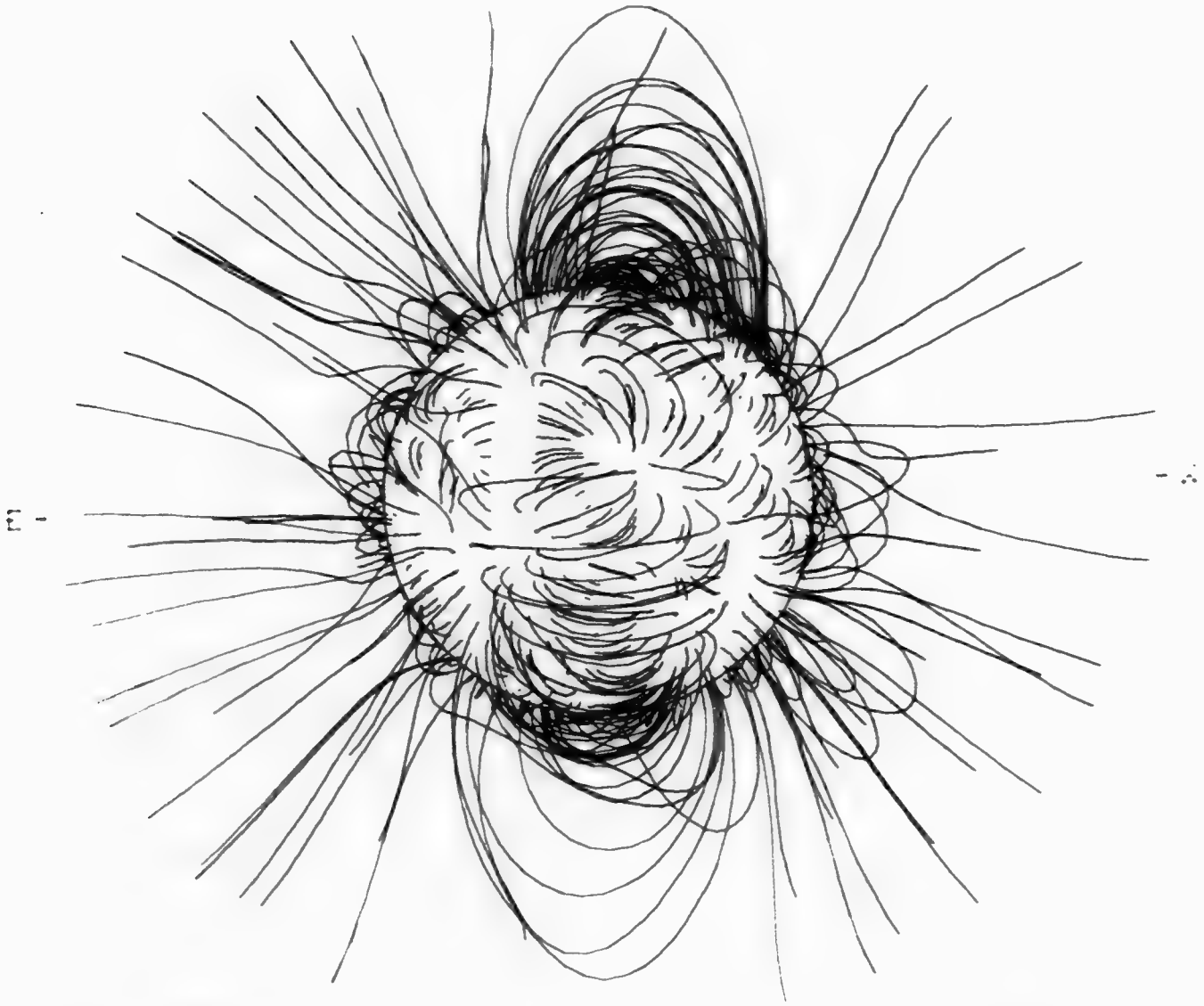
ROT. 1548 LONG. 21.0°

31.4 MA° .65°

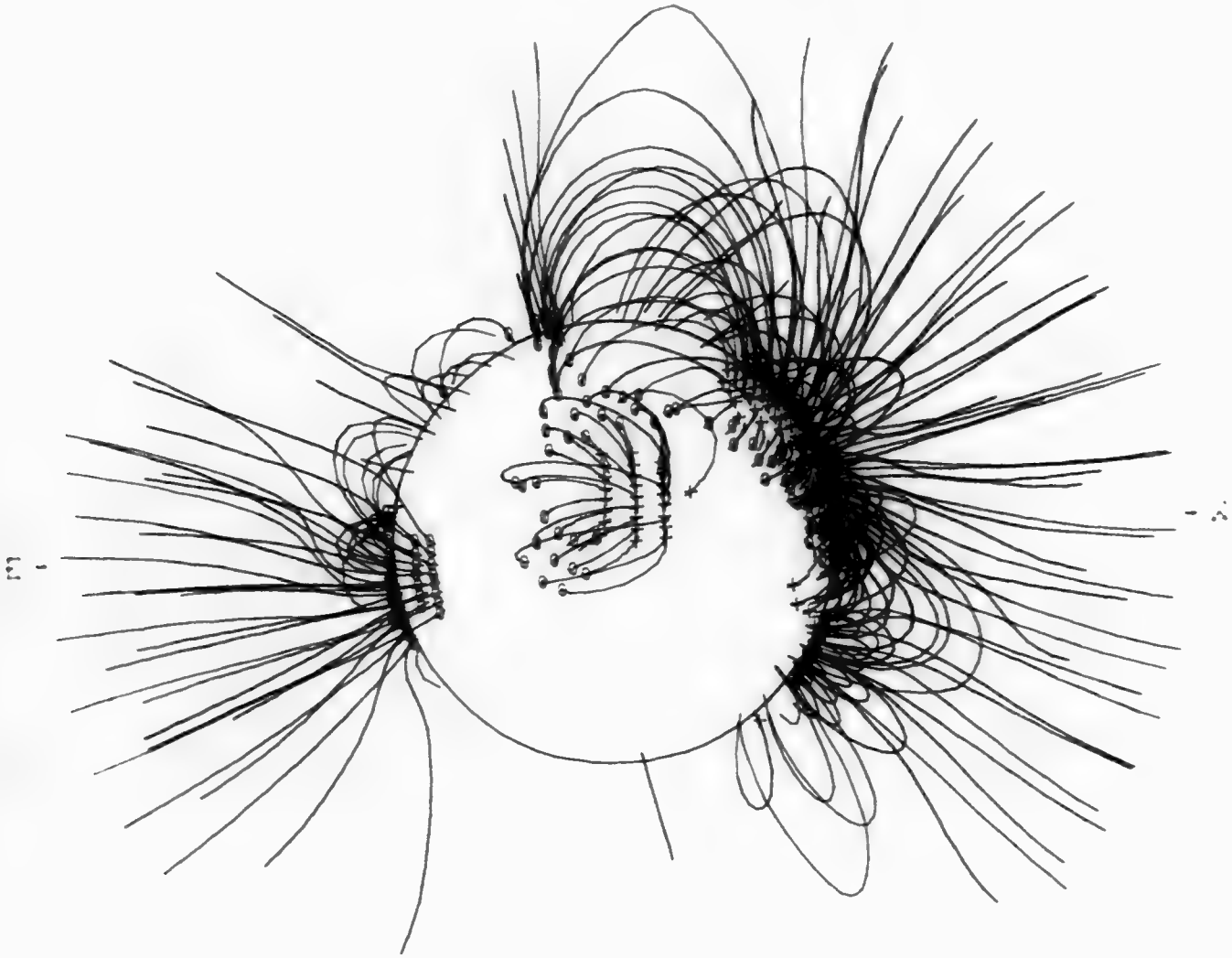
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



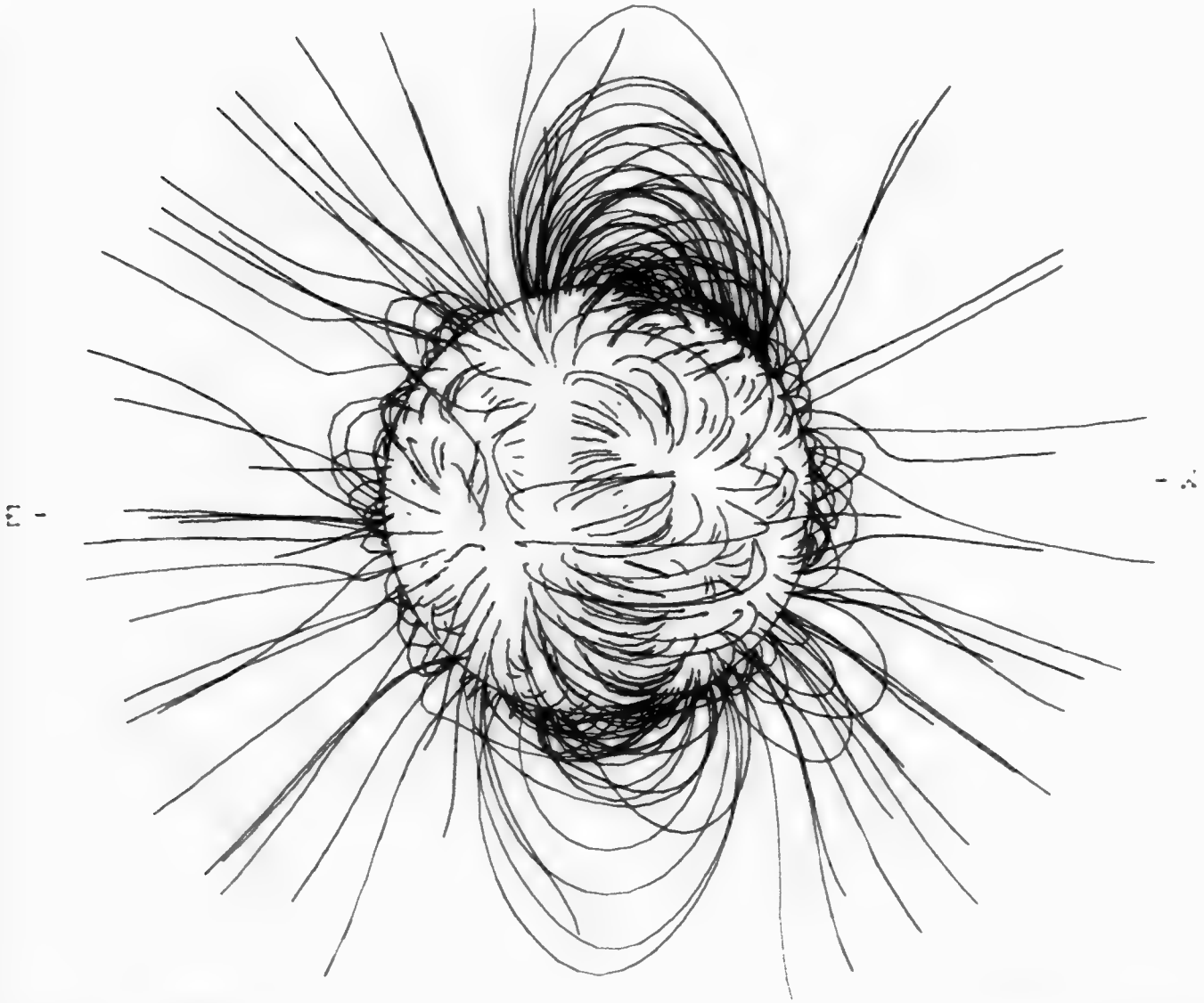
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



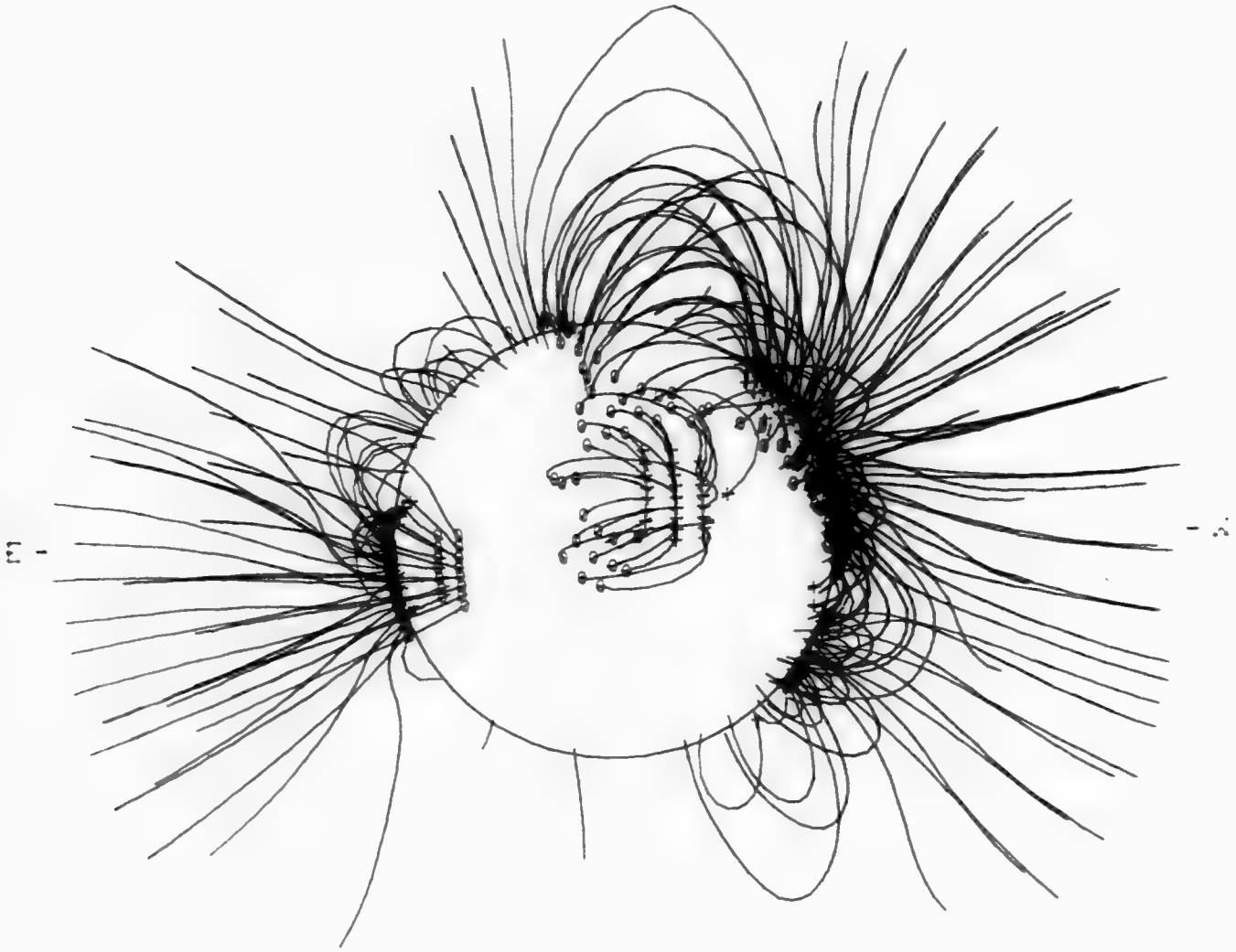
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



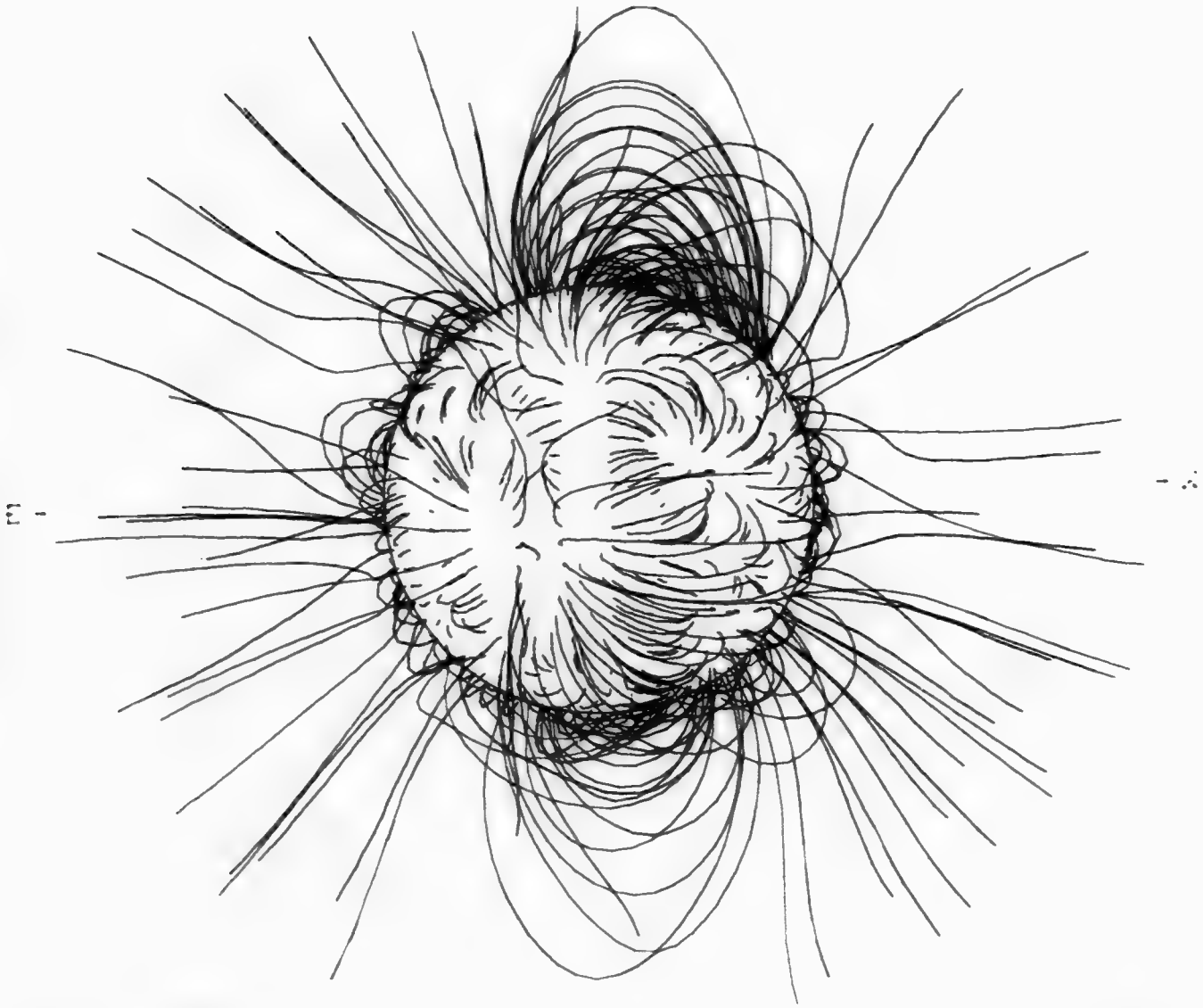
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



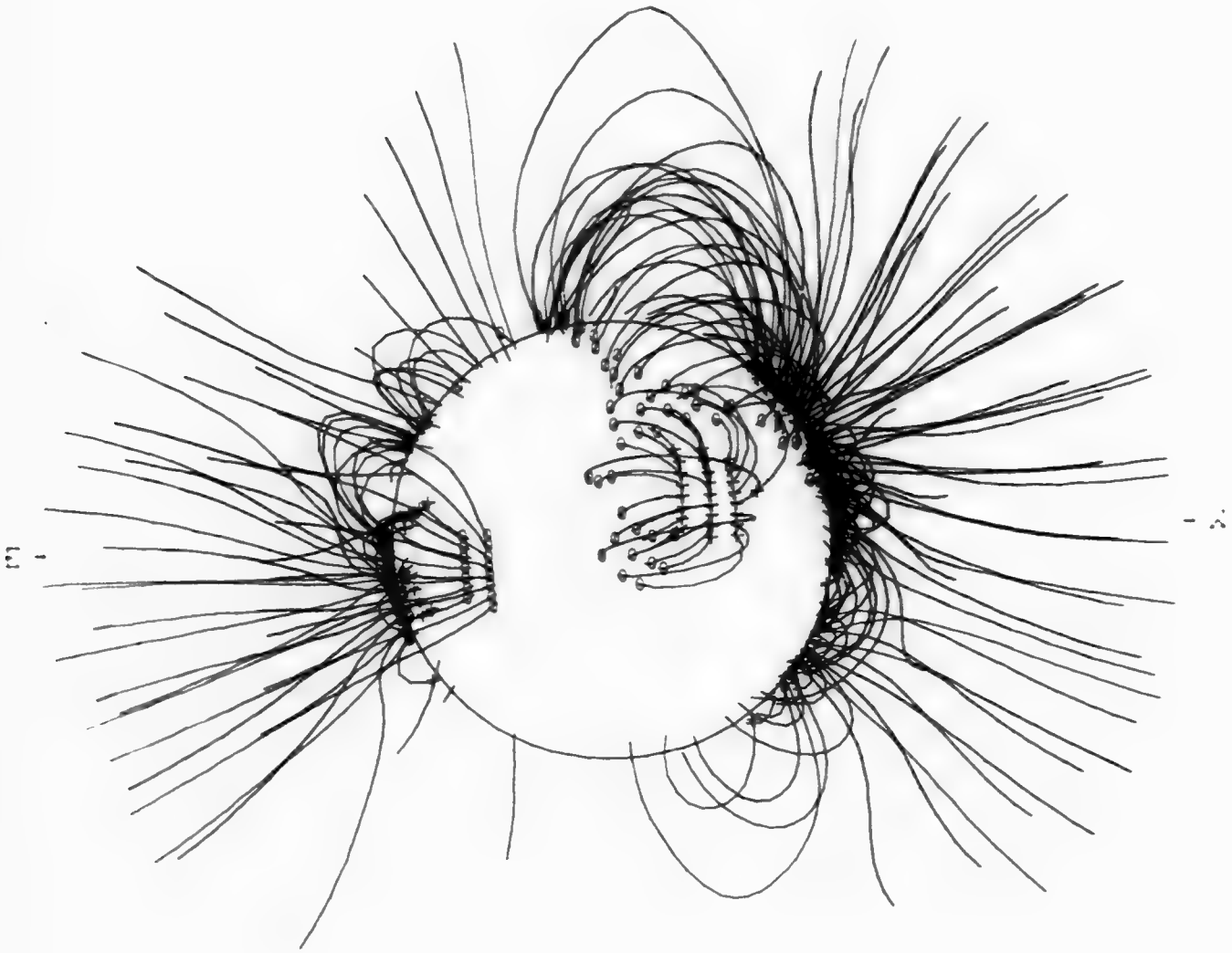
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



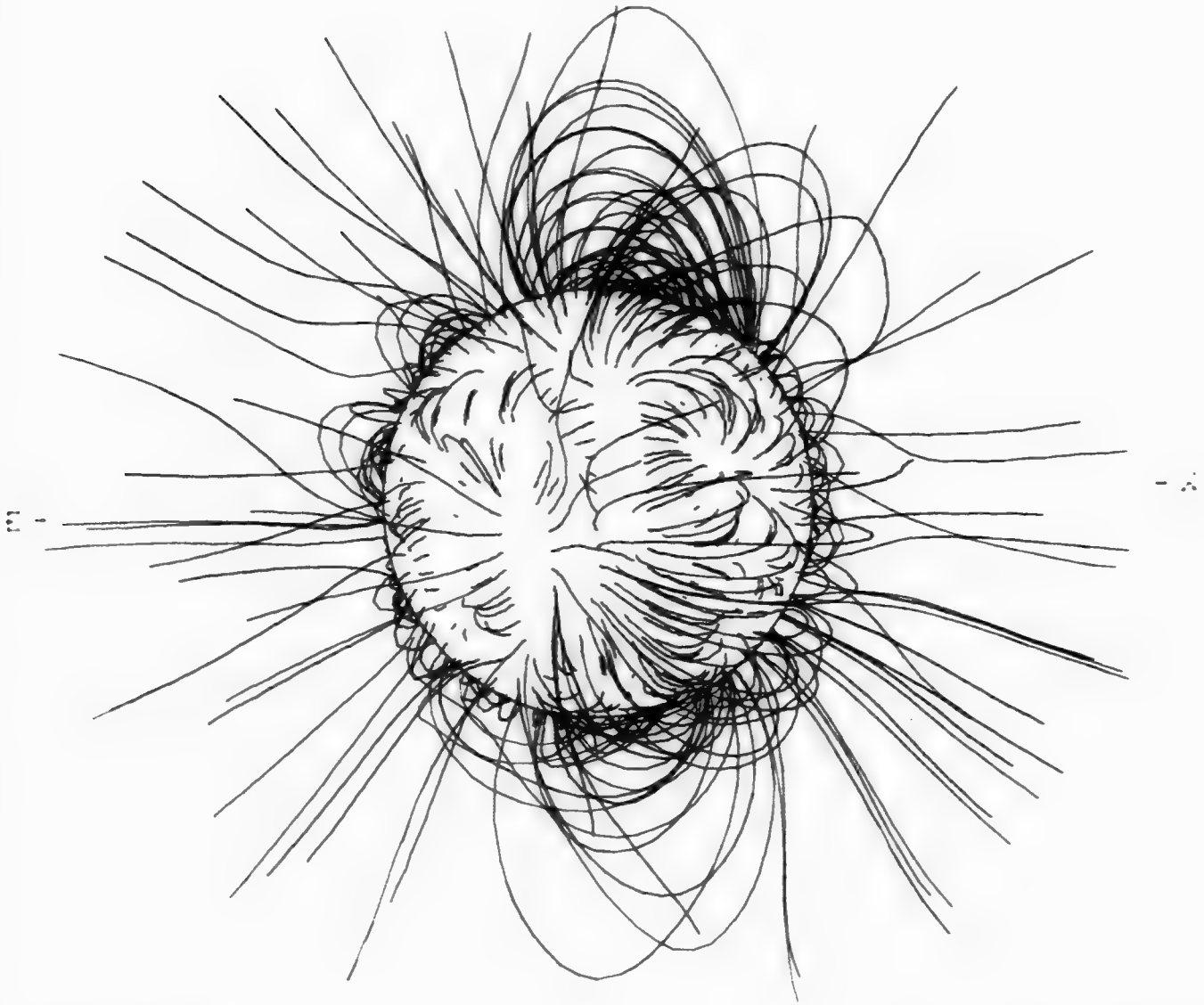
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



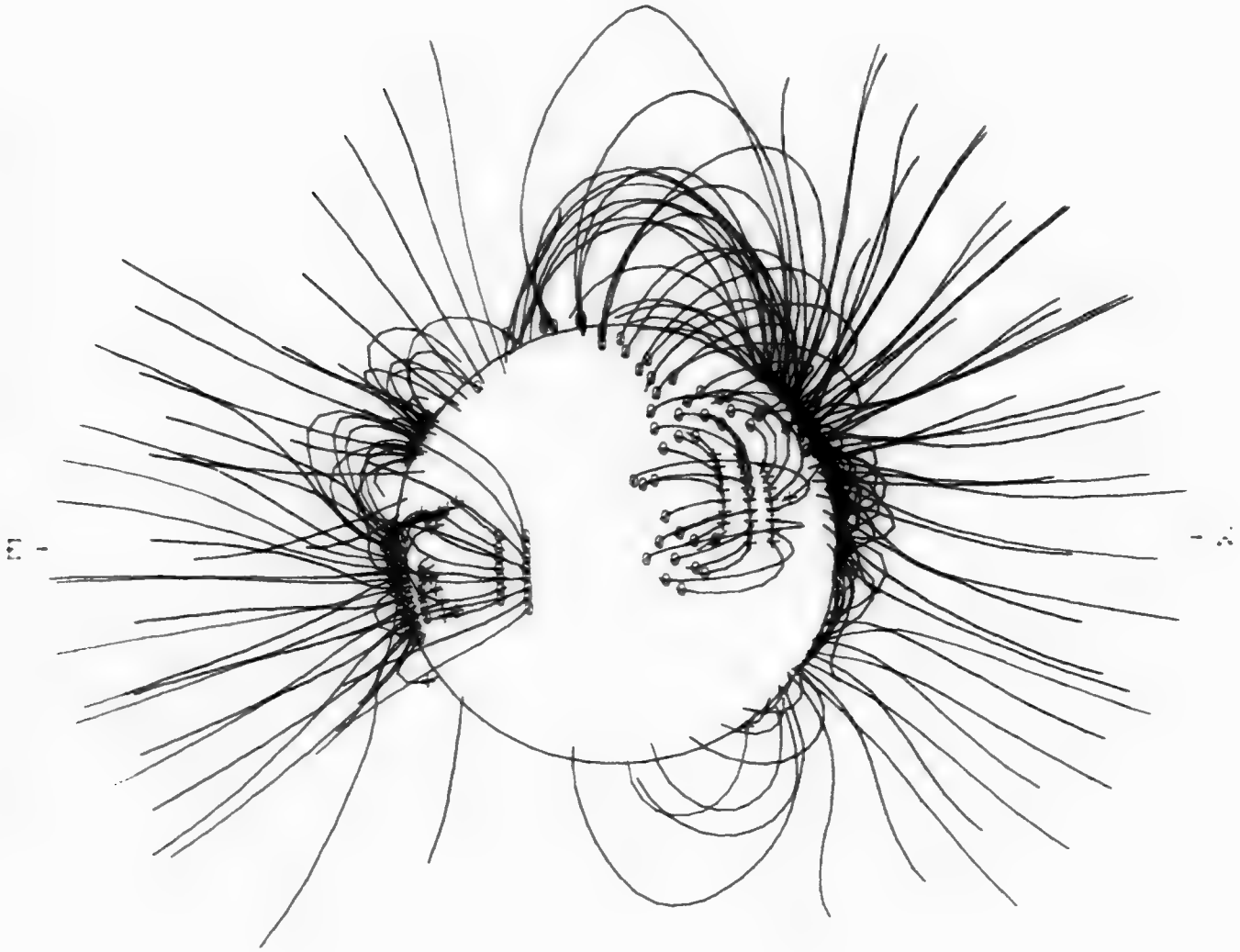
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



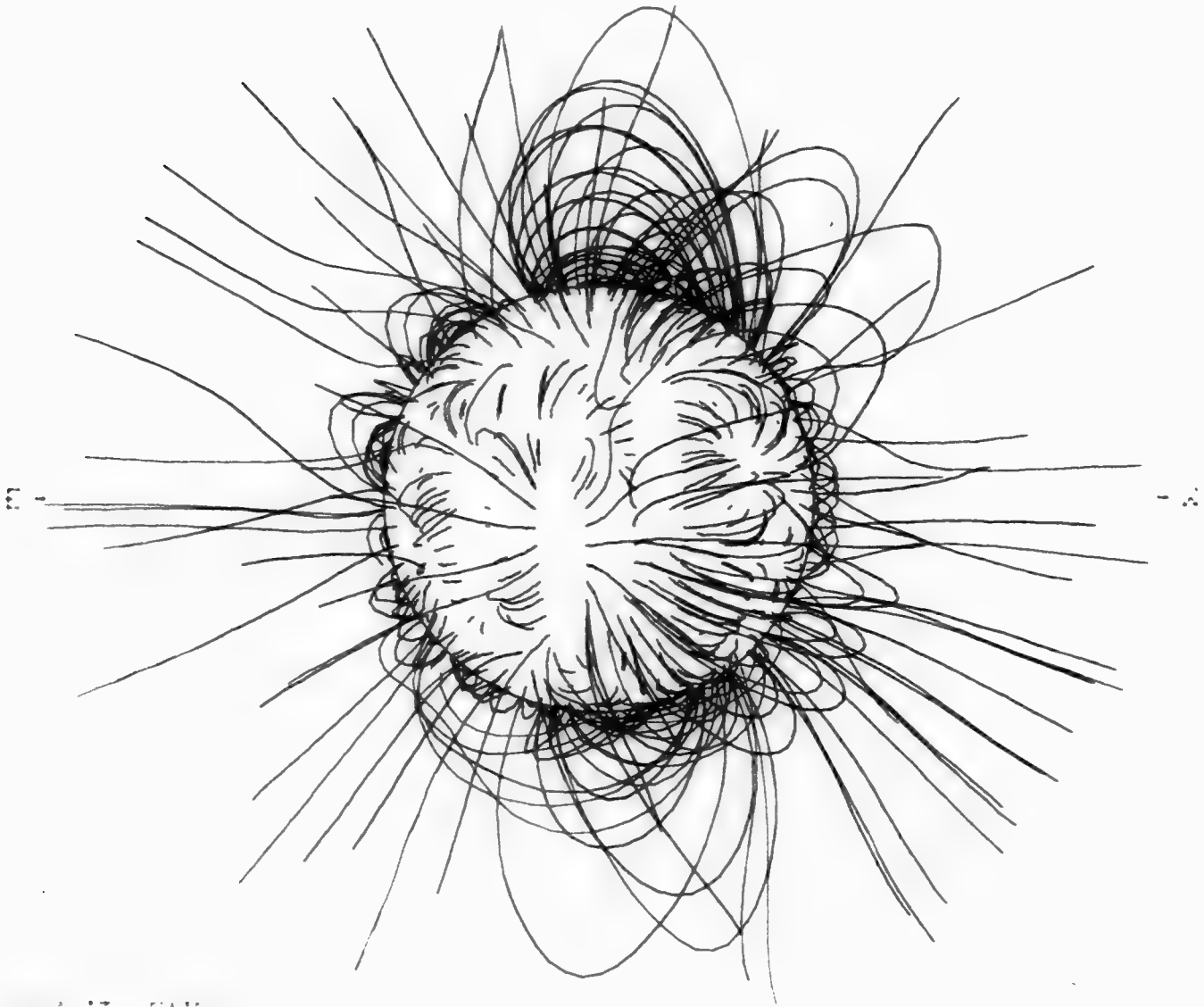
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



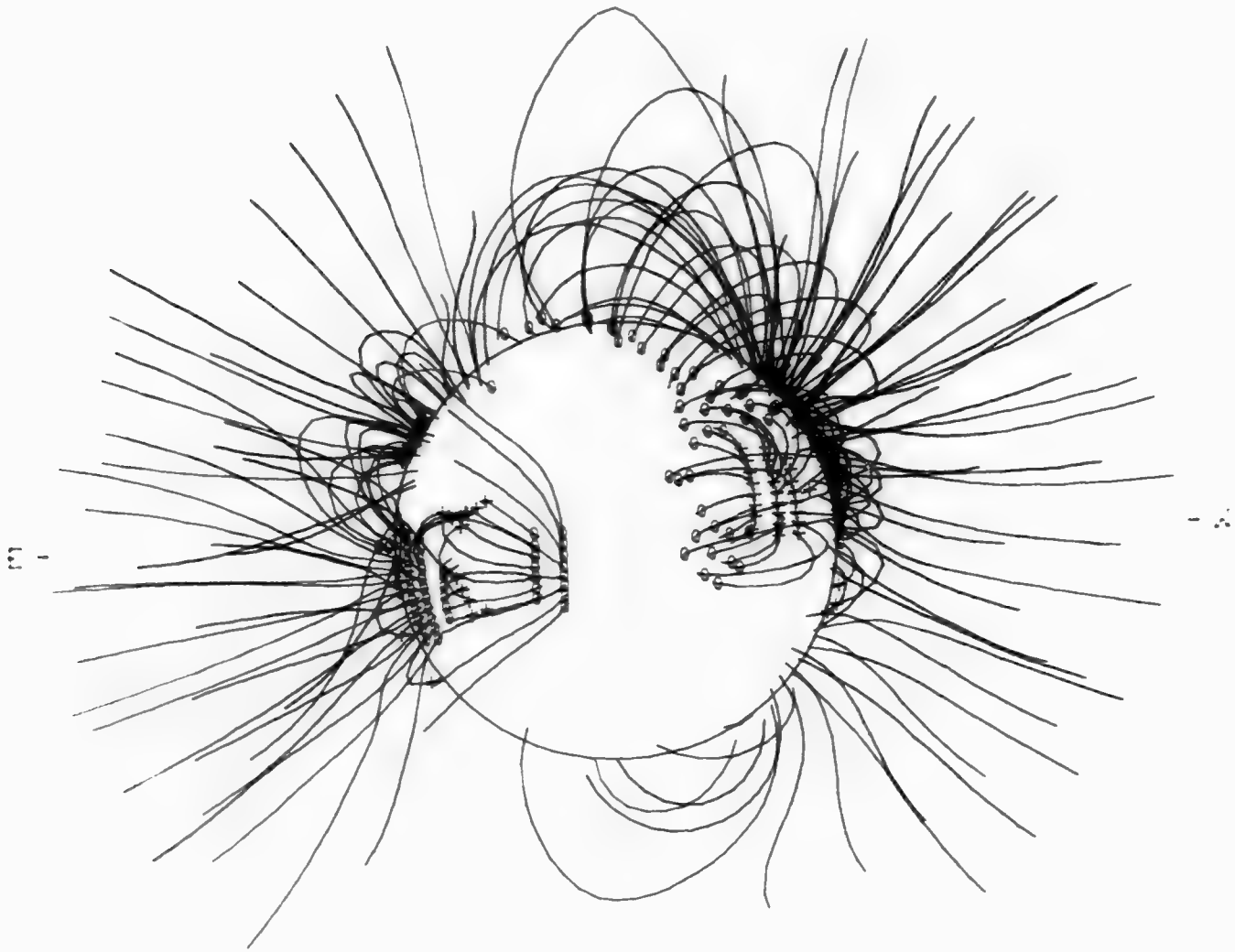
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



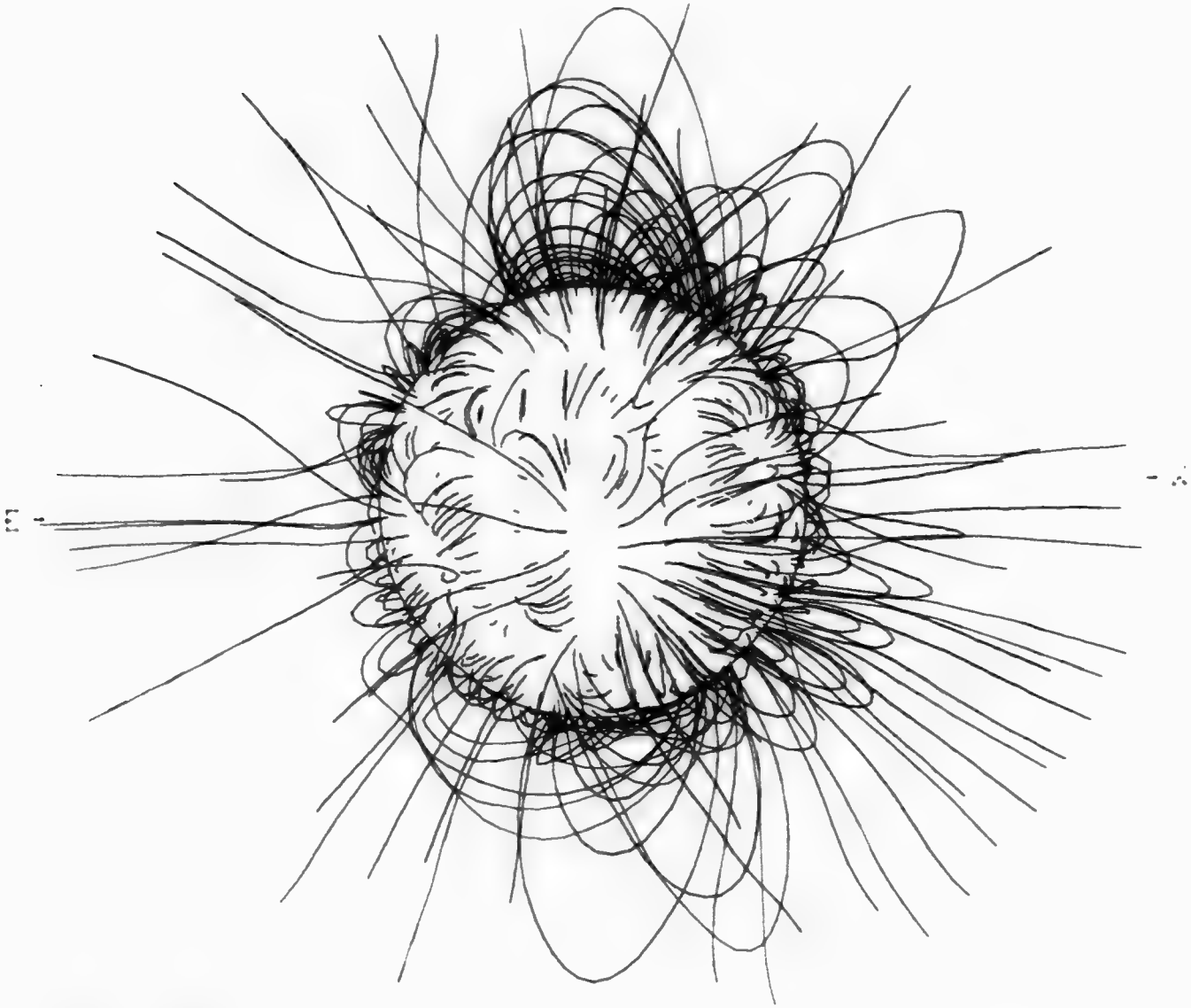
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



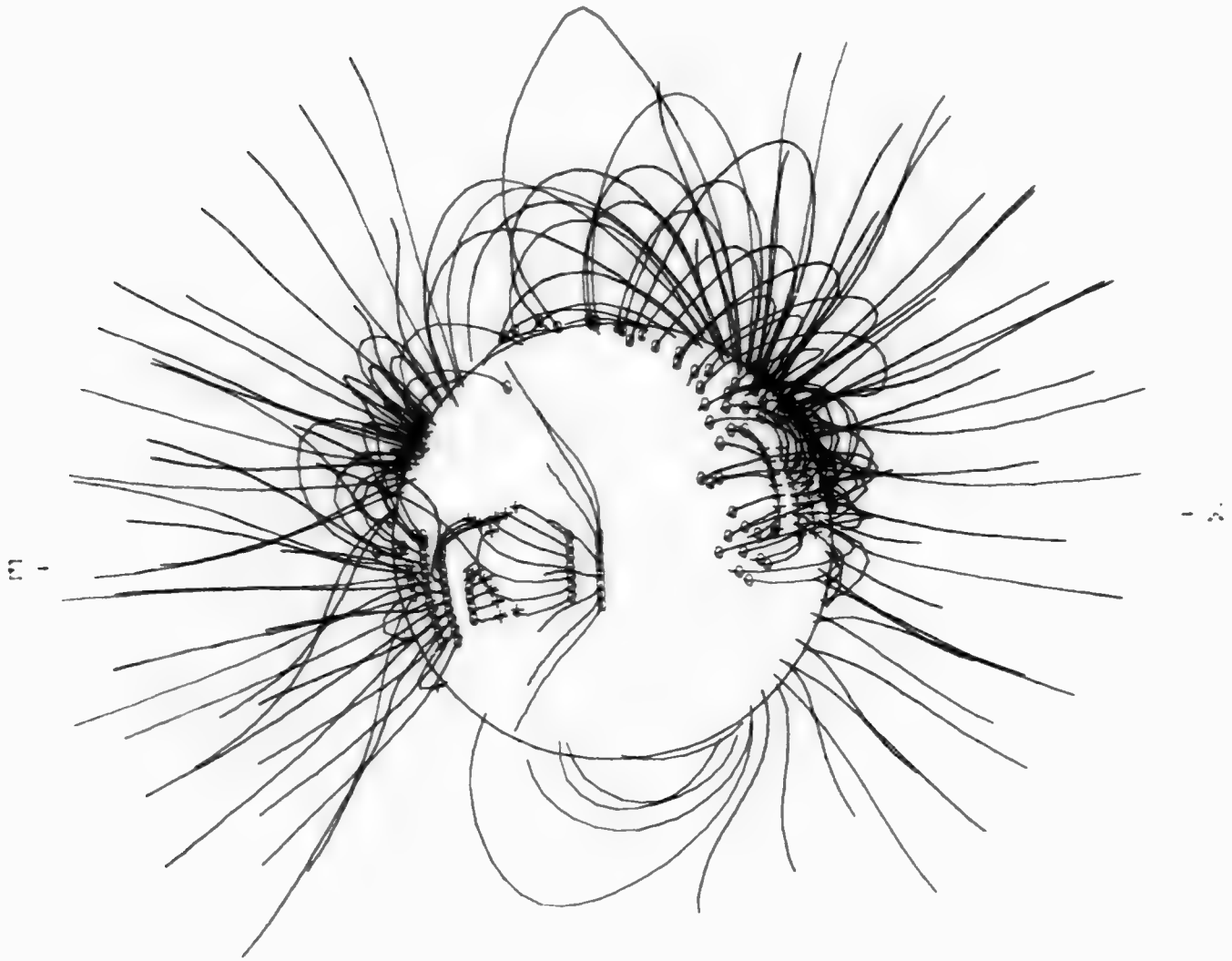
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



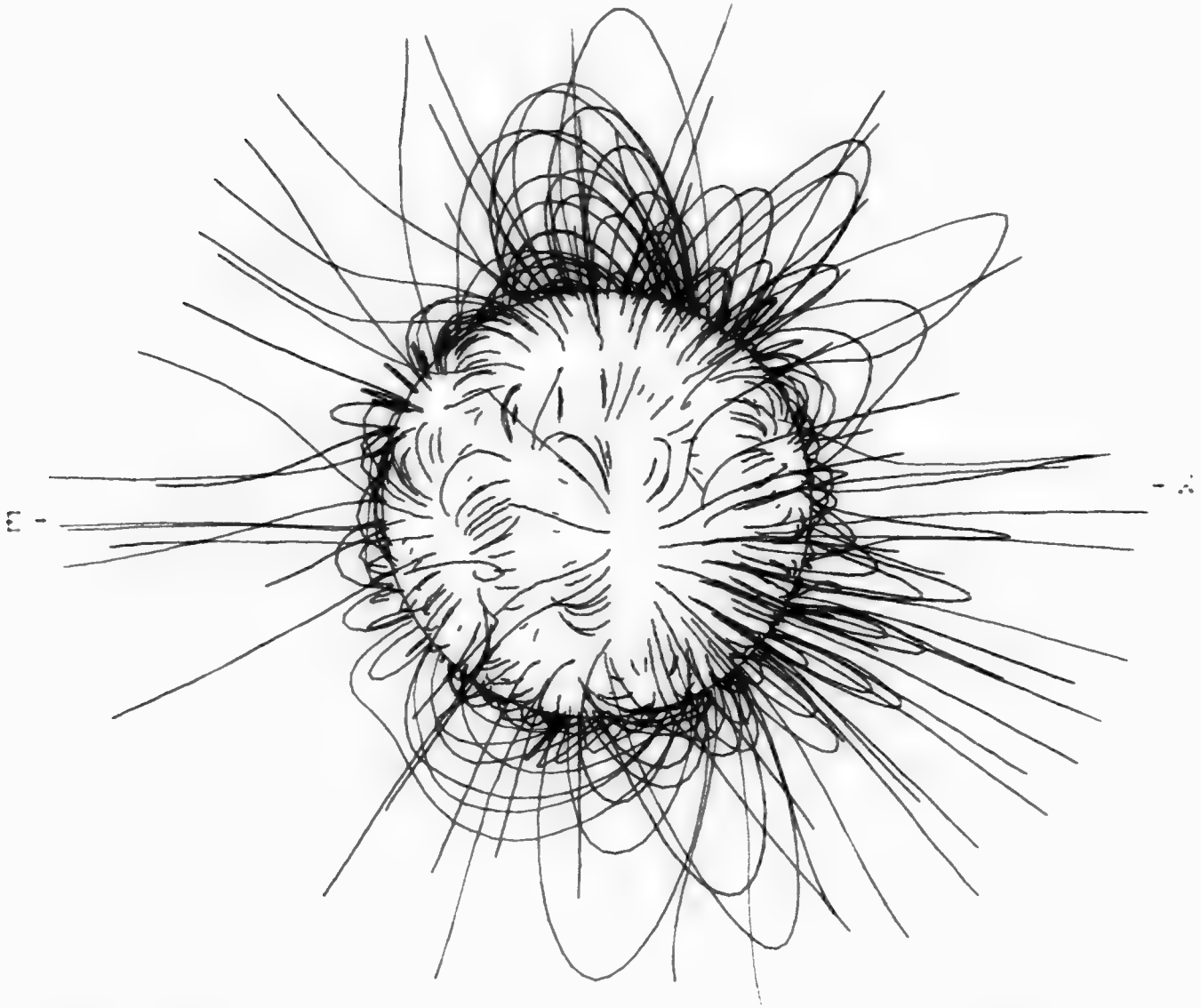
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



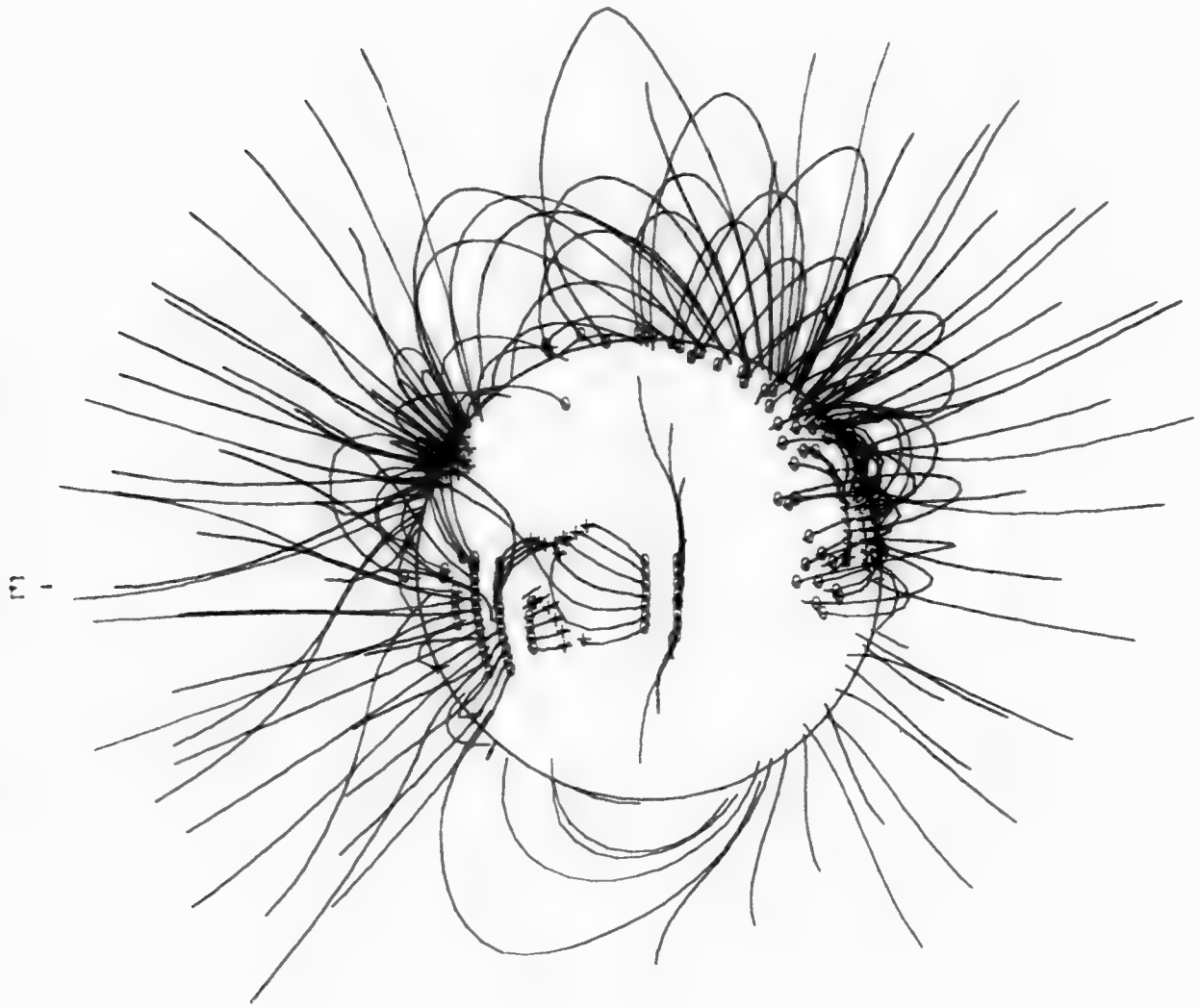
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



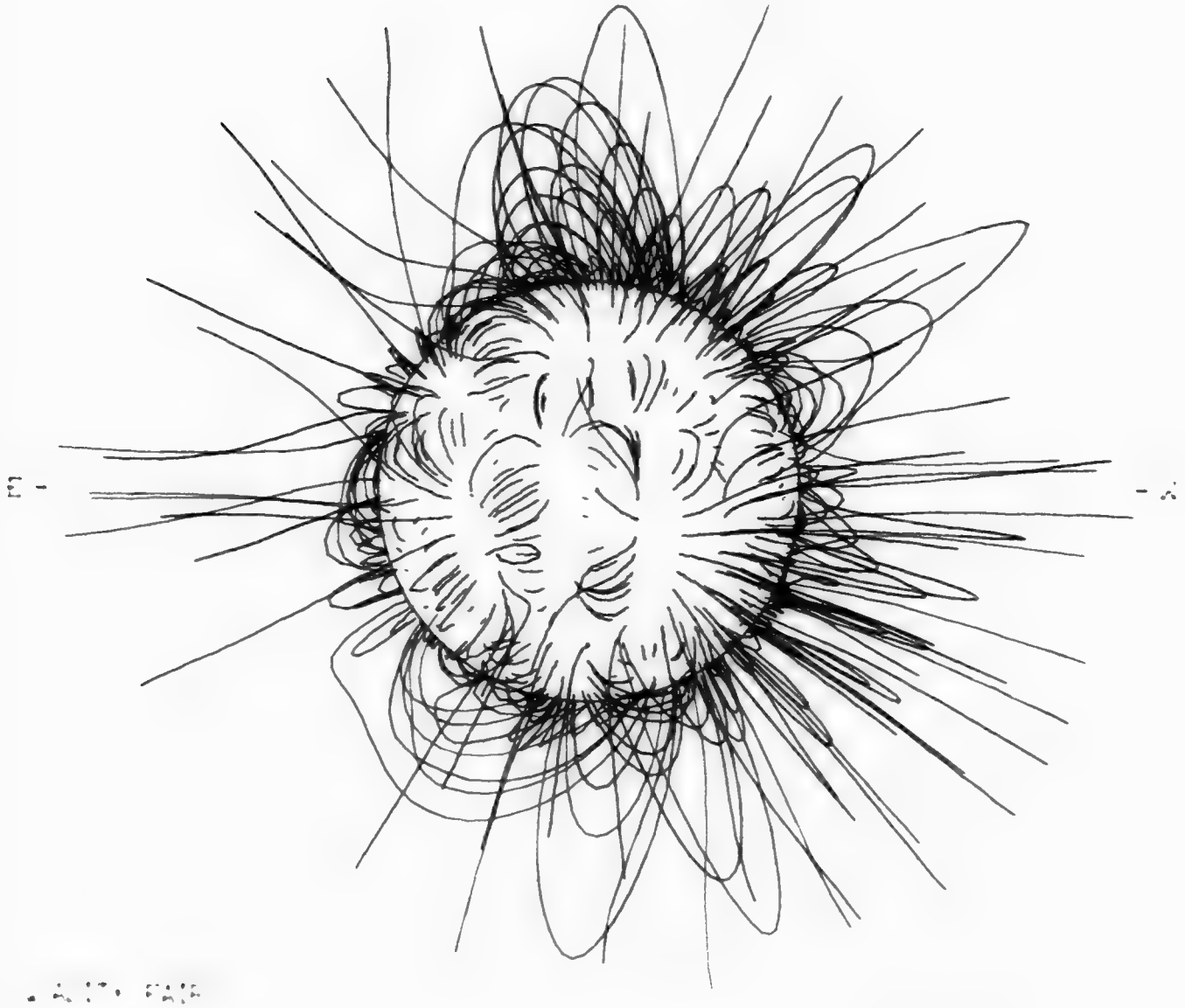
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



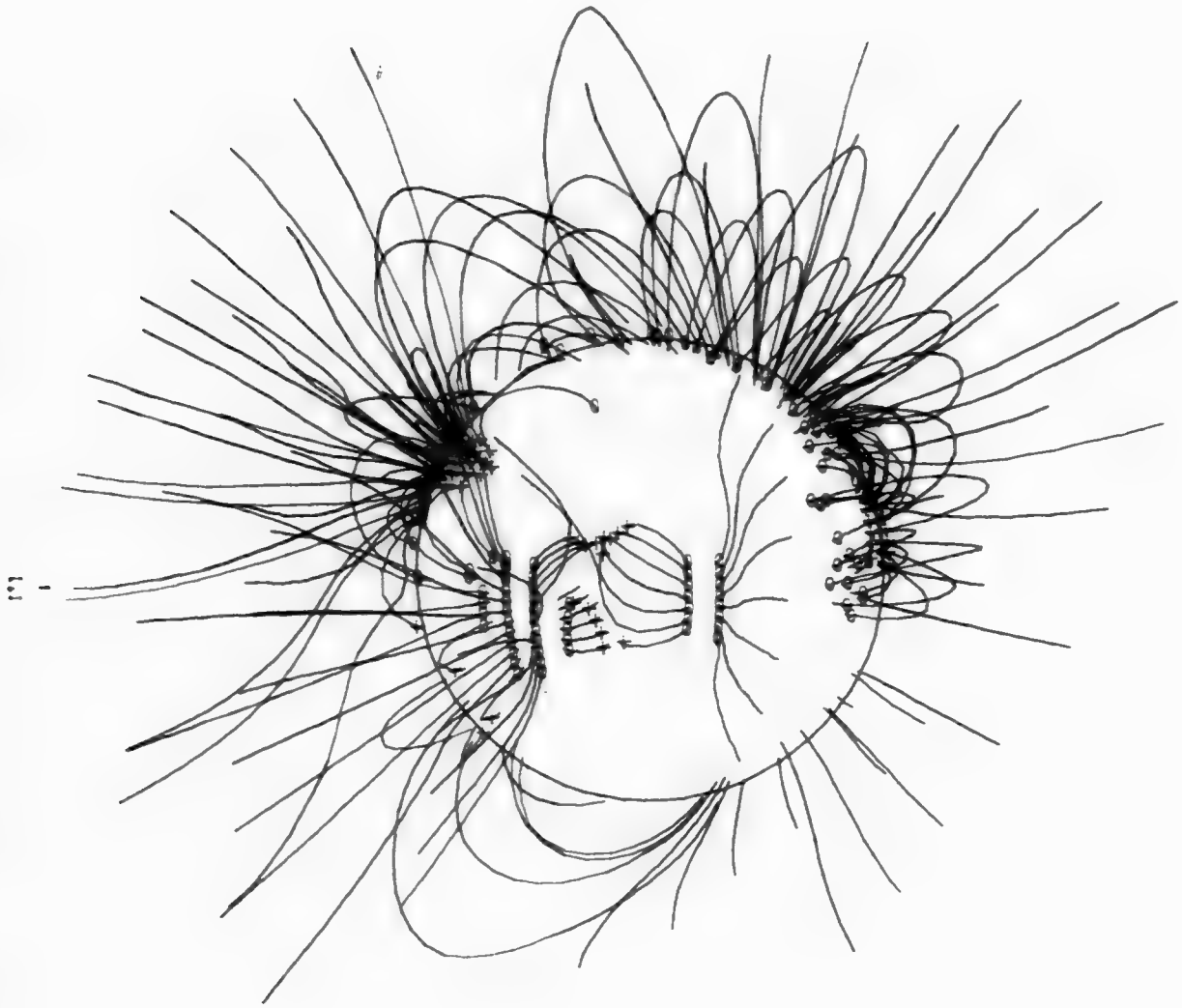
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



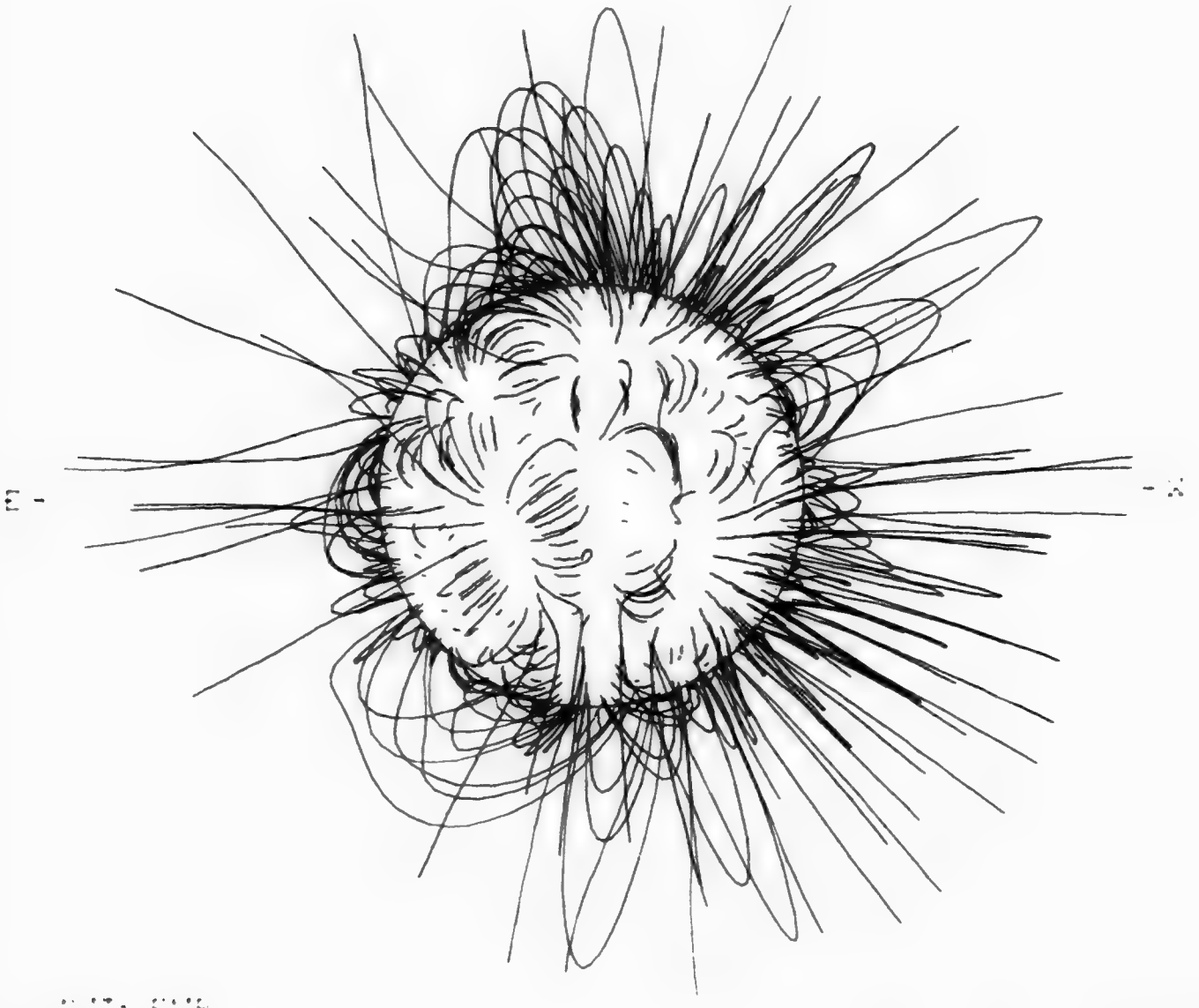
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



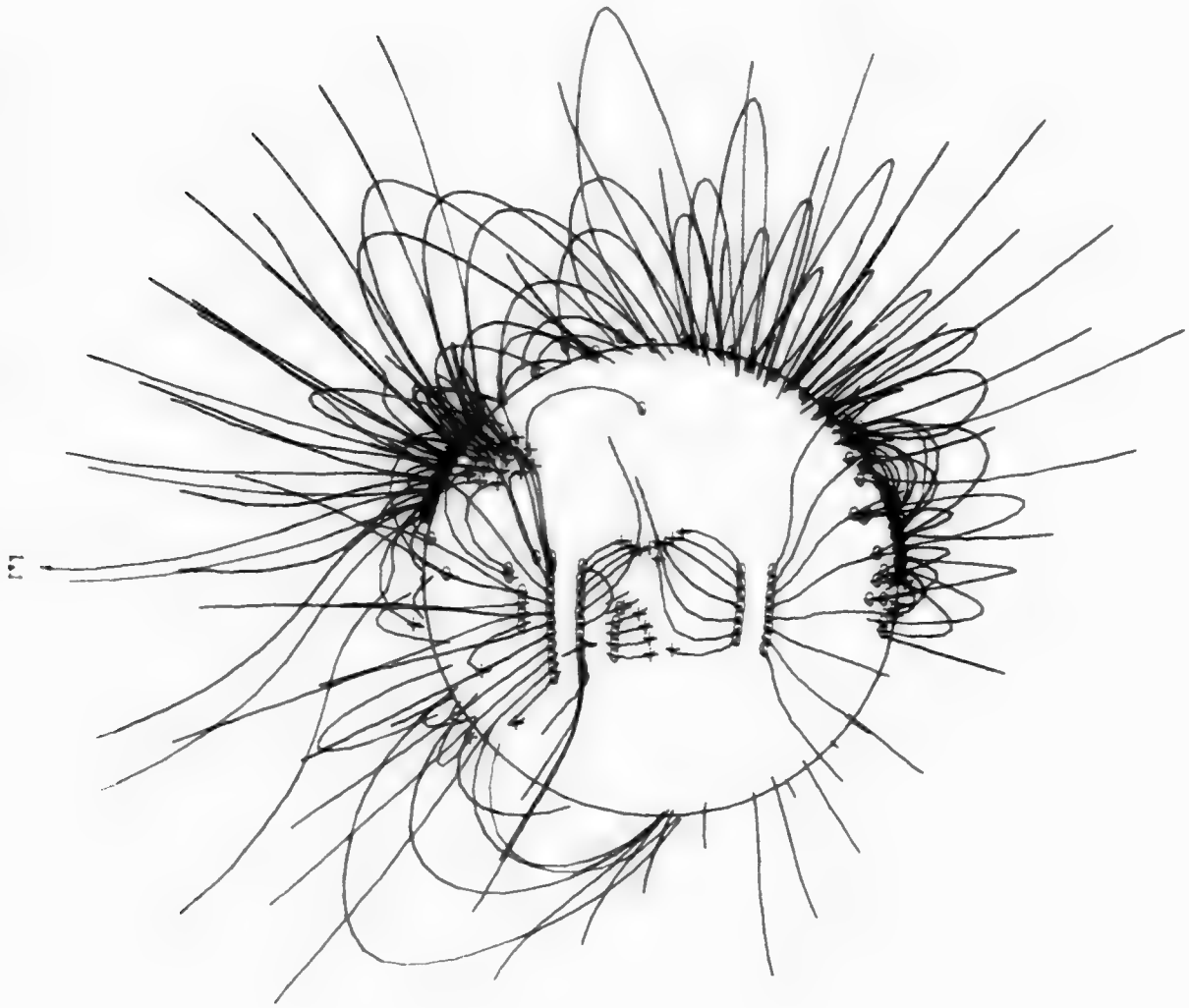
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



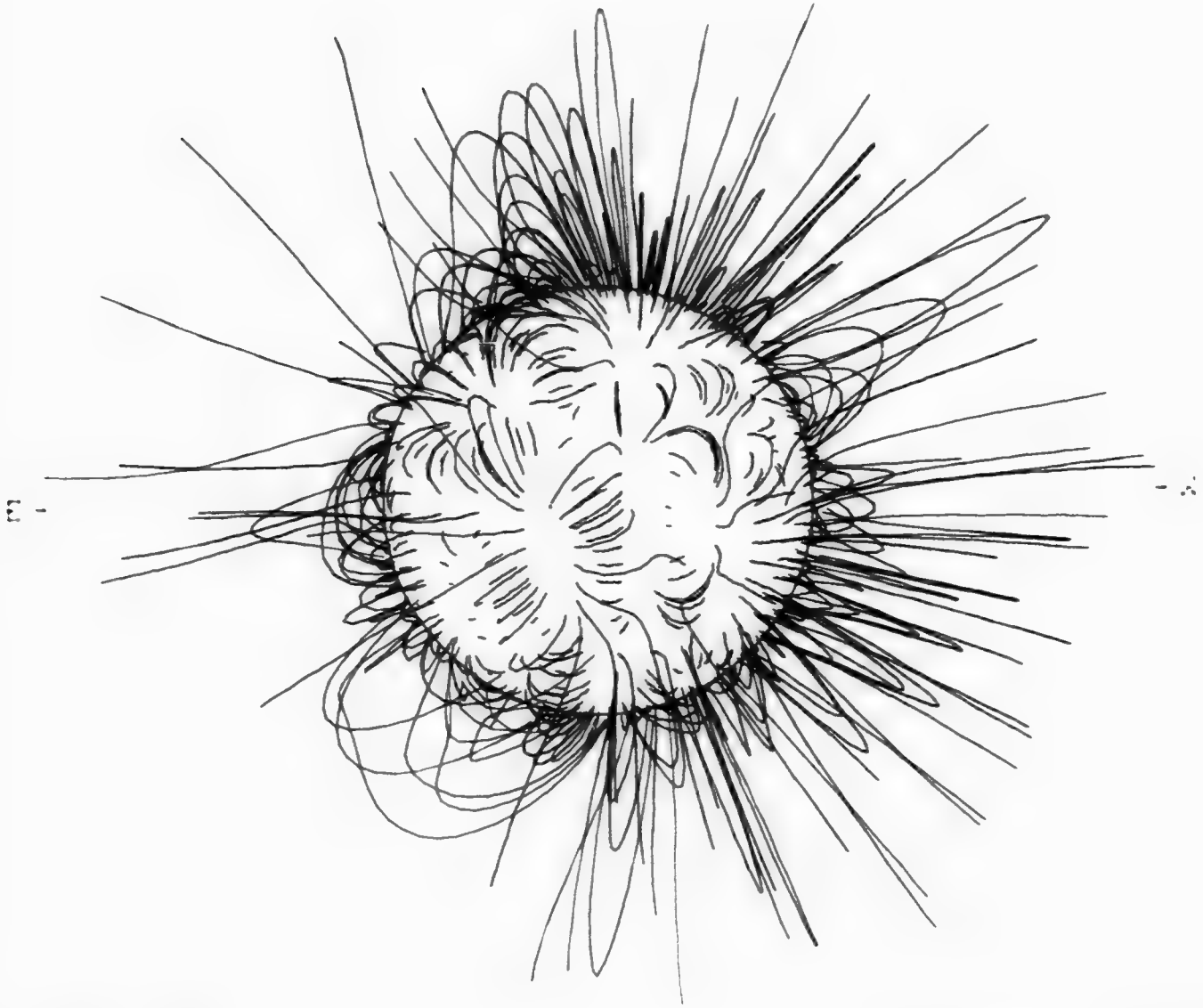
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



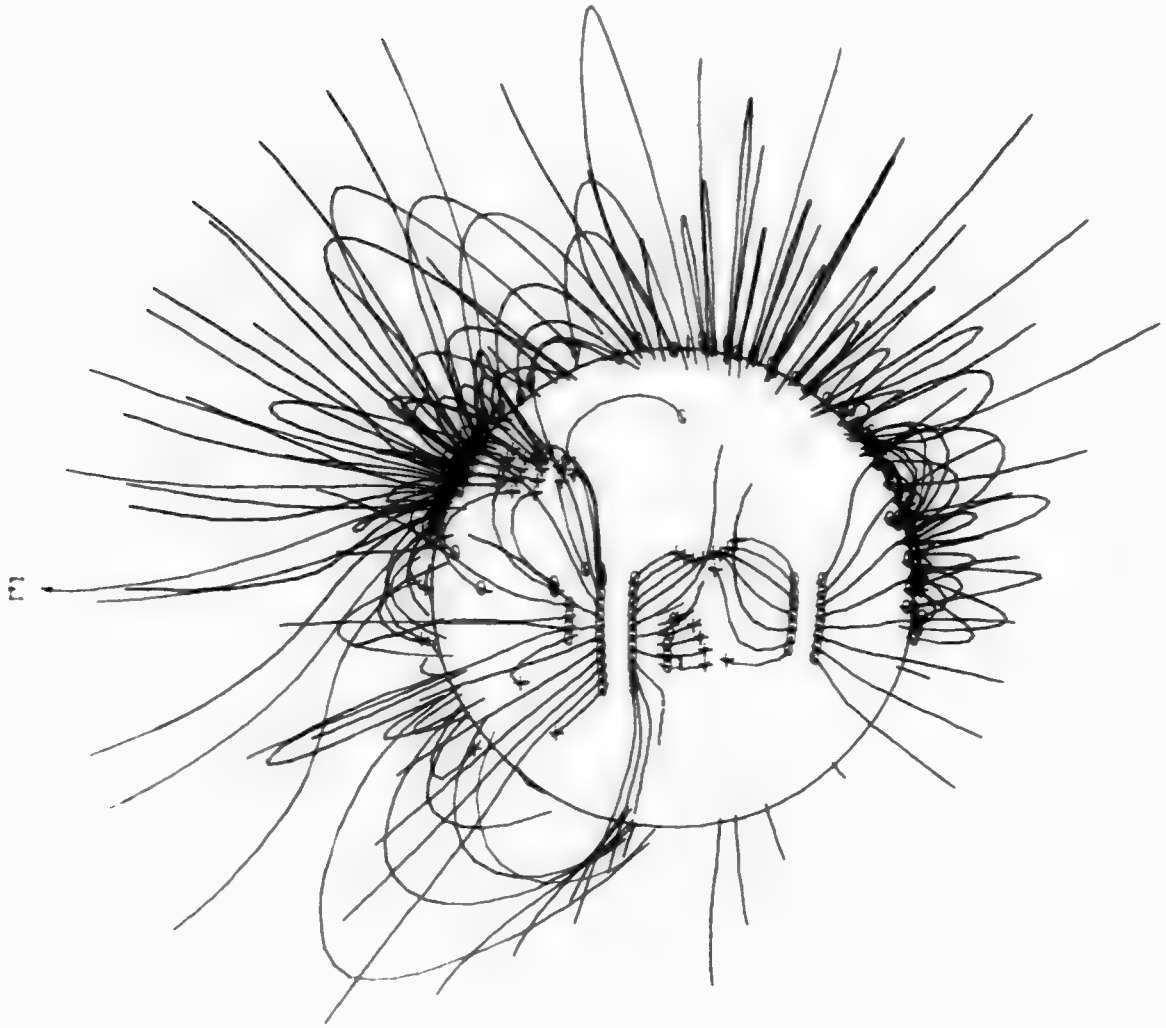
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



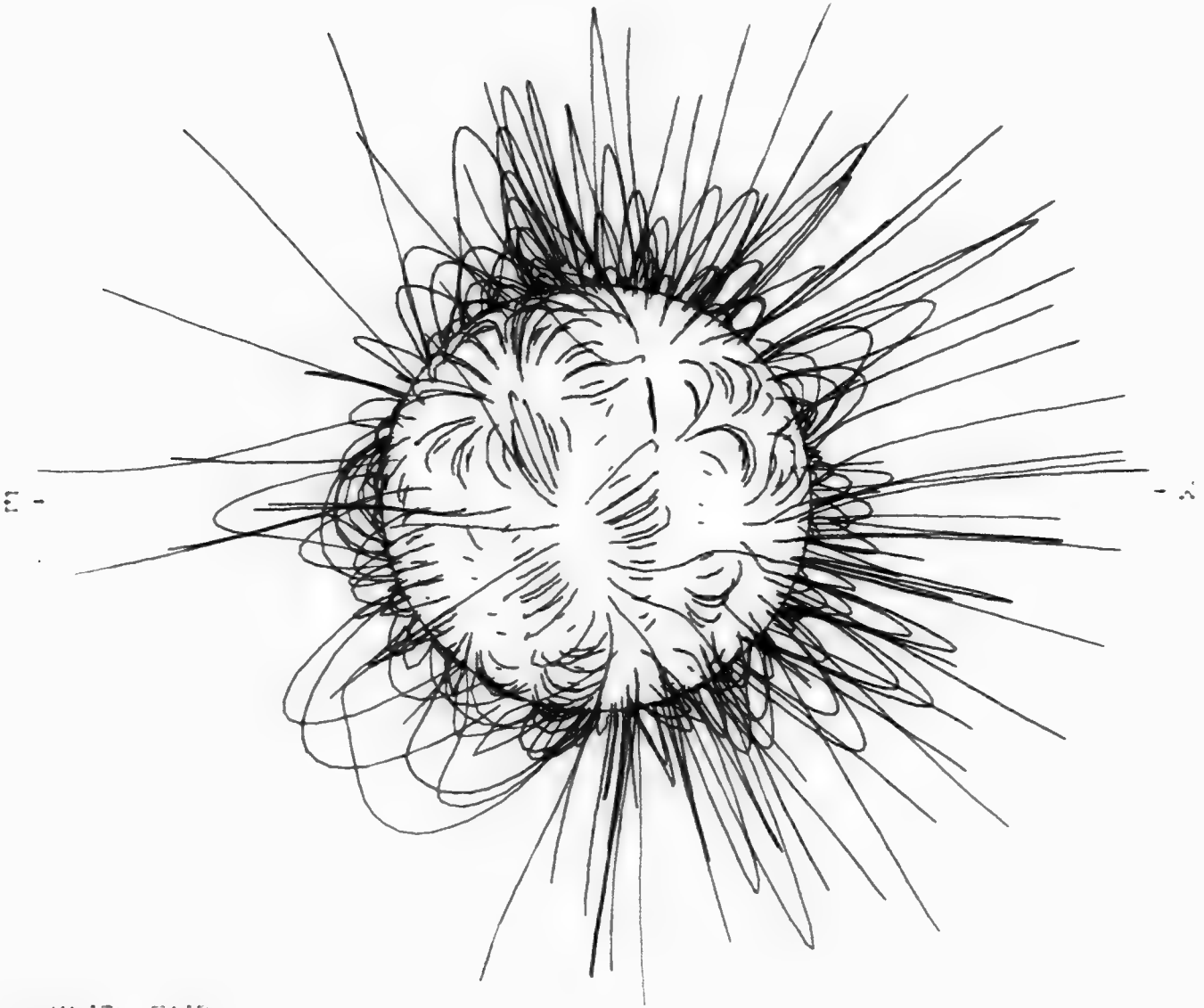
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



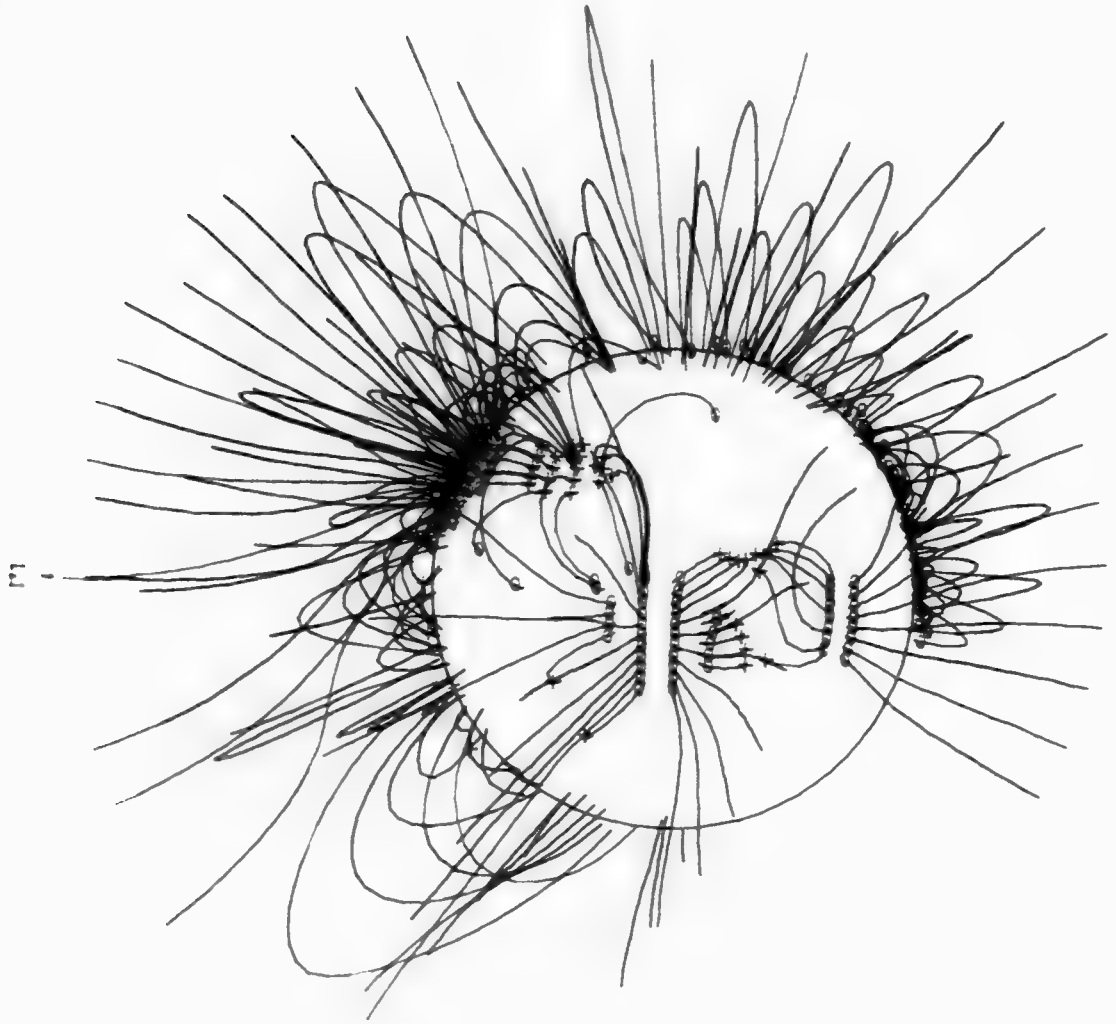
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

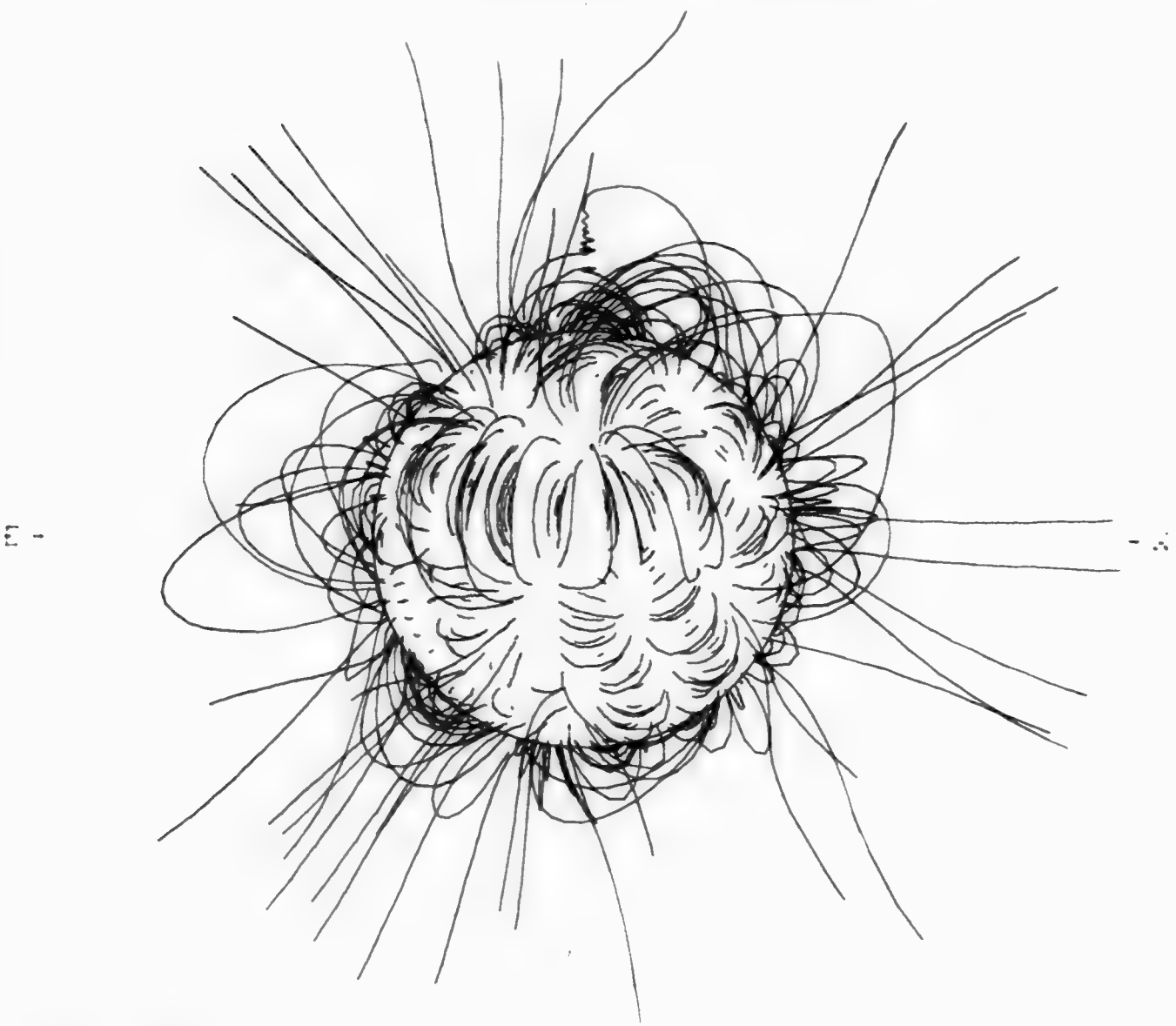


HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

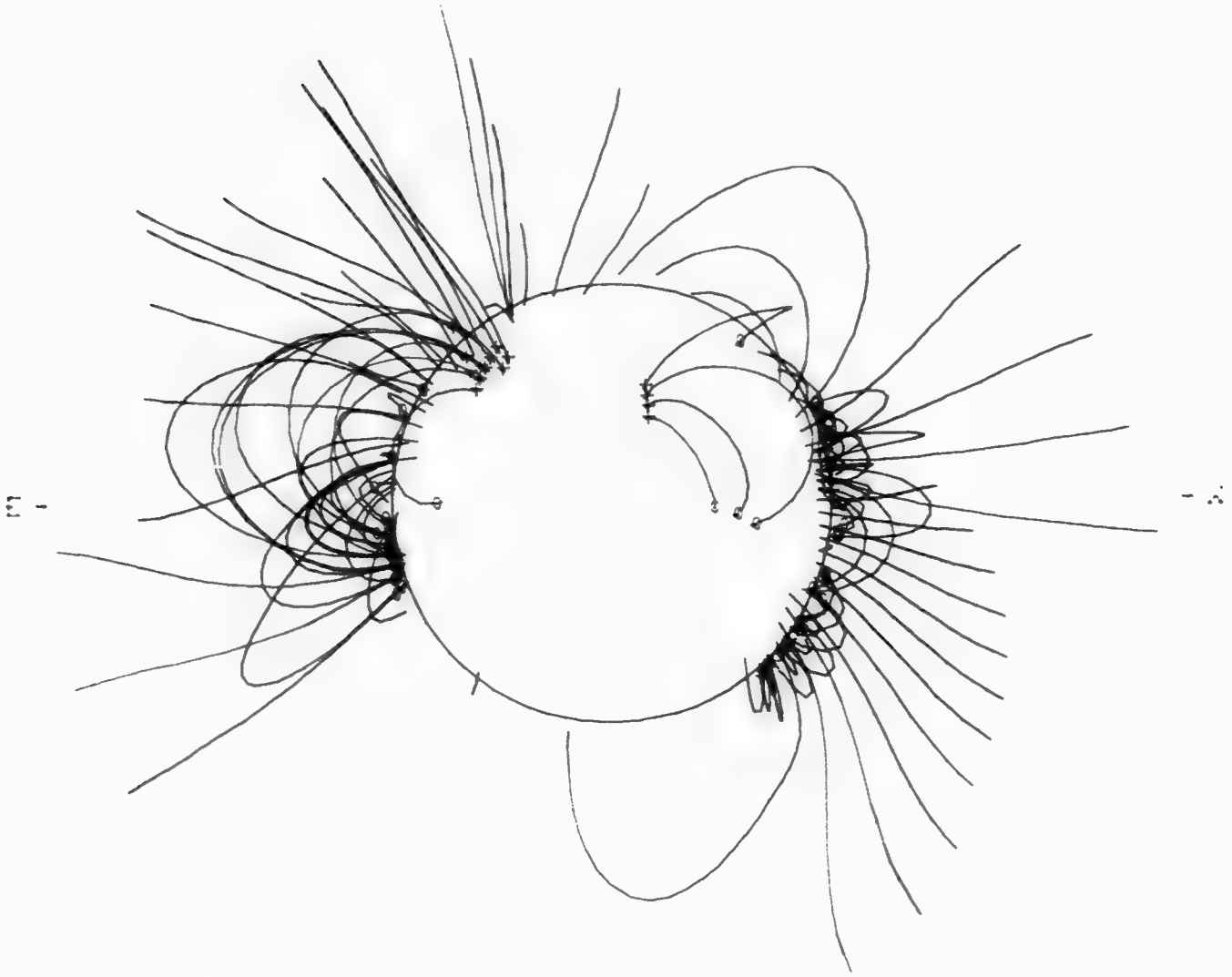


NO OBSERVATIONS
ROT. 1548 LONG. 100--ROT. 1551 LONG. 290
8.8 JUN 1969--15.8 AUG 1969

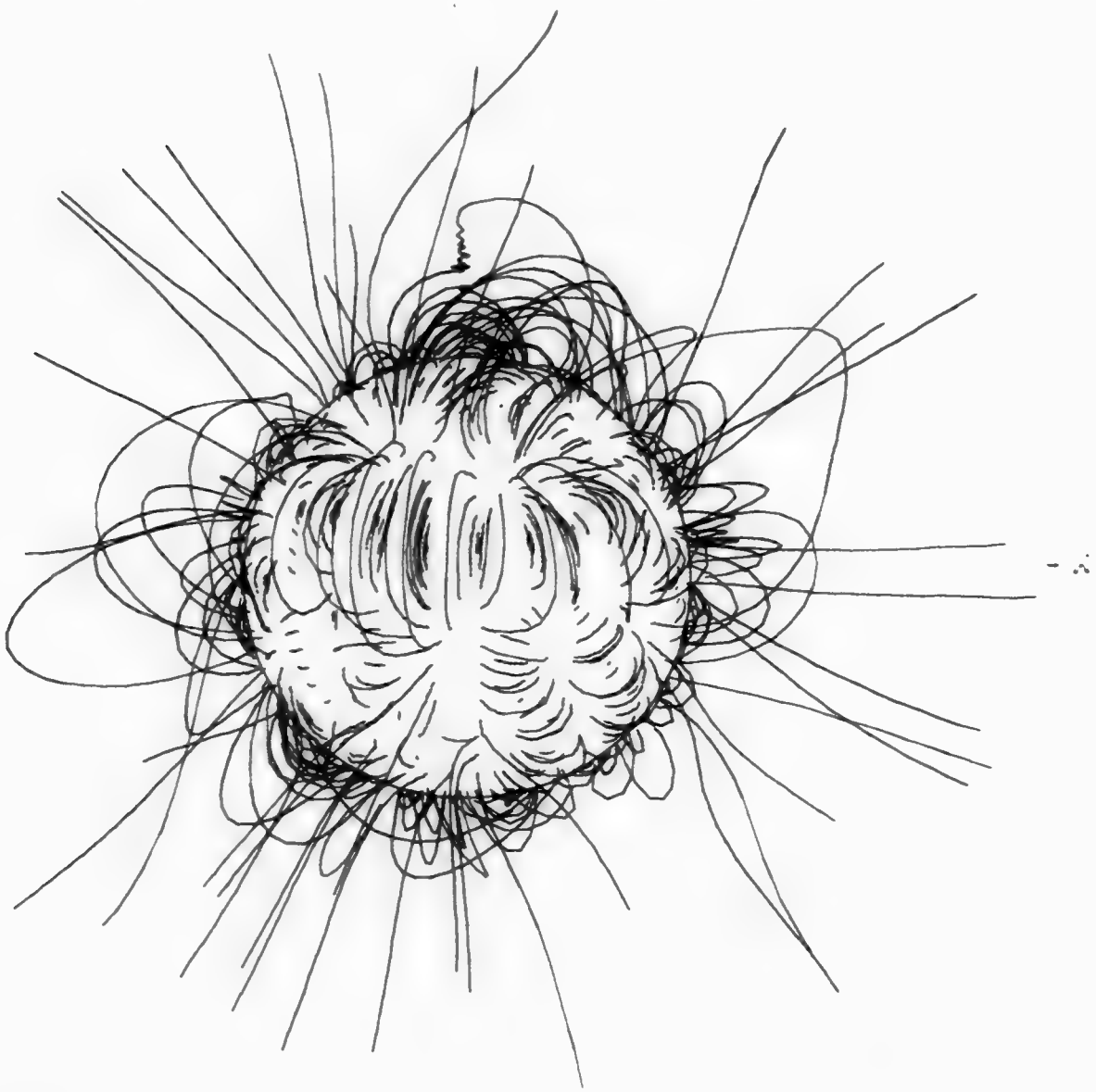
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



E -

- A

QUALITY FAIR

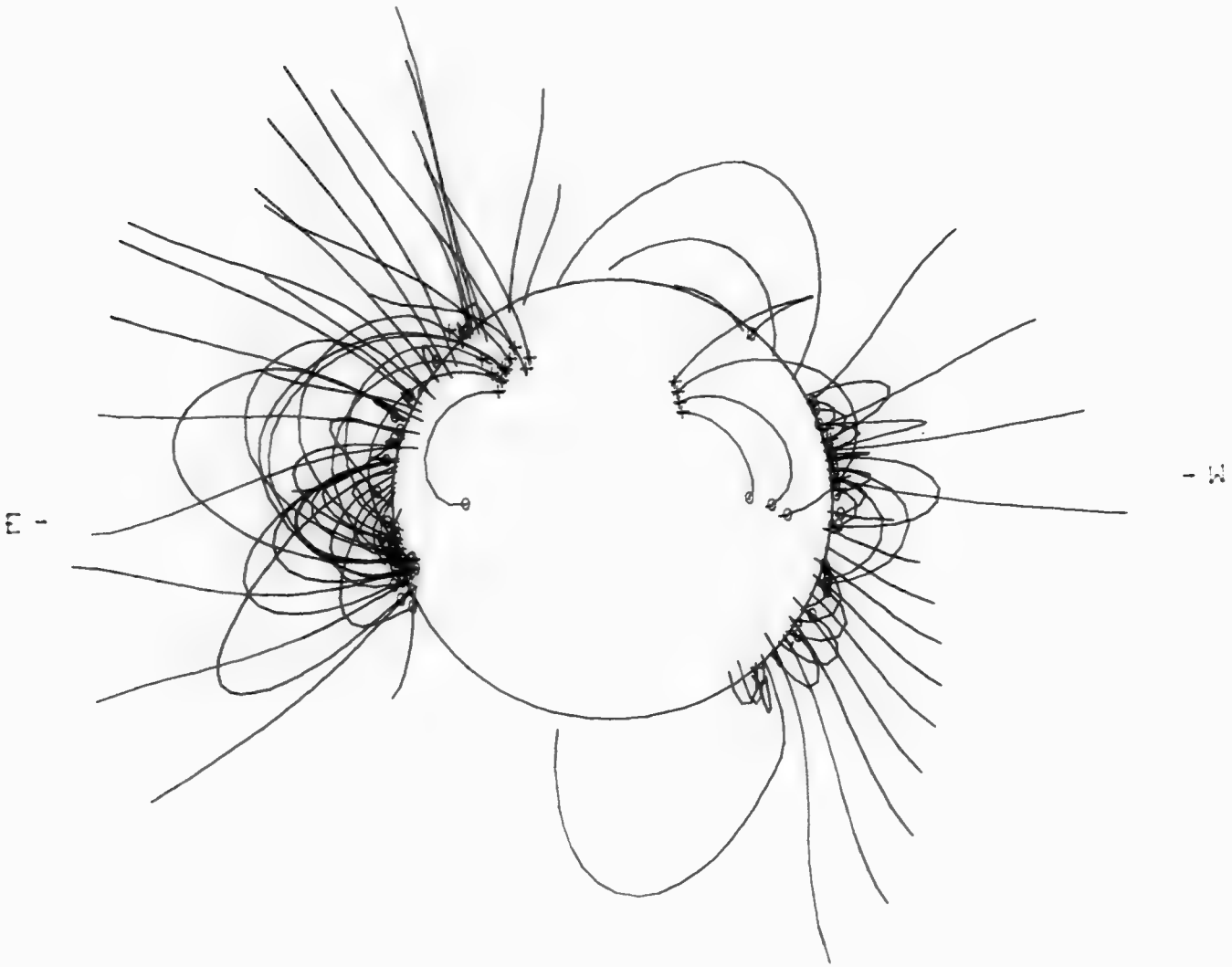
[illegible]

[illegible] 1555.1

R.T. 1555 [illegible] 27°

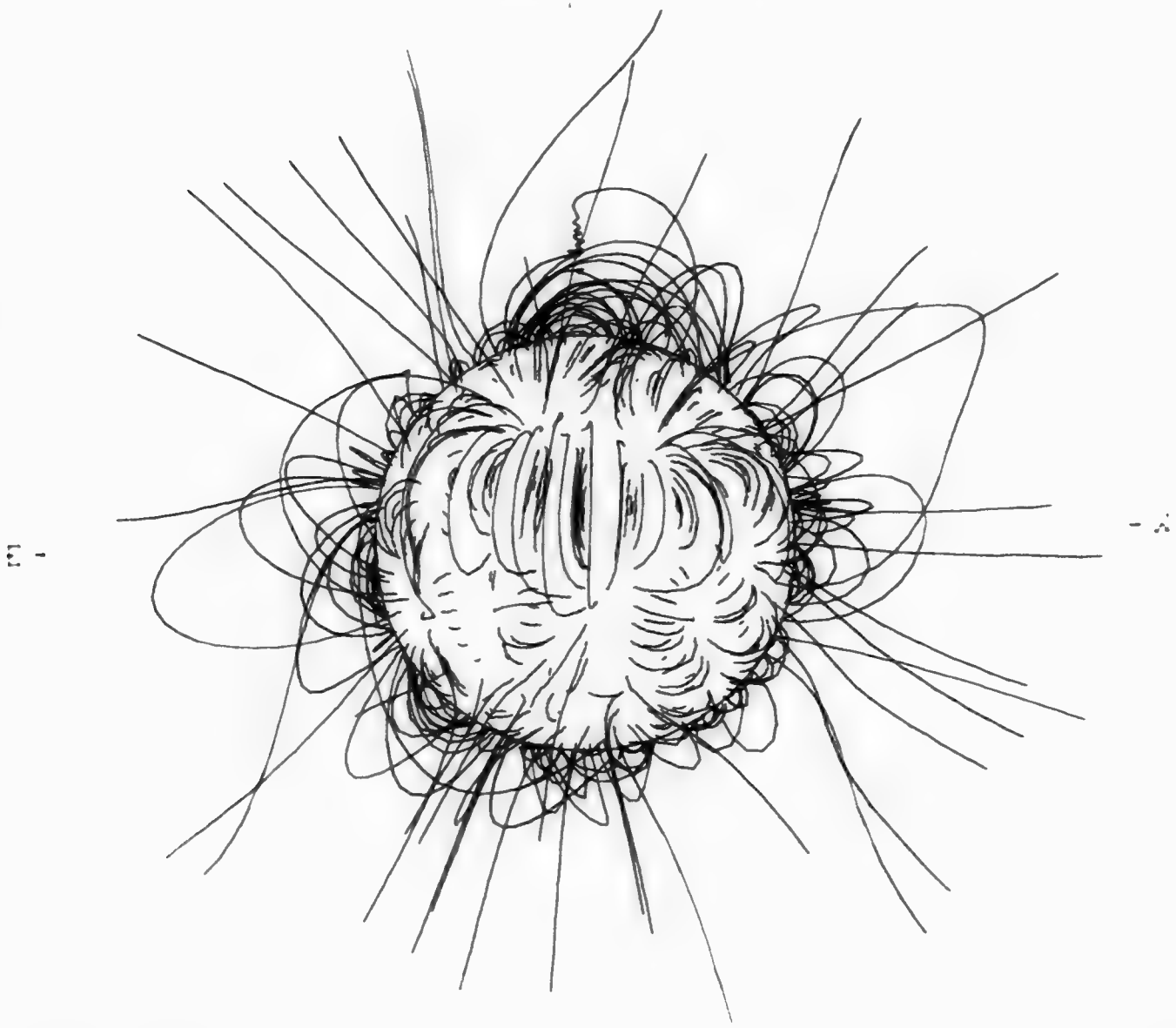
17.3 AUG 1969

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

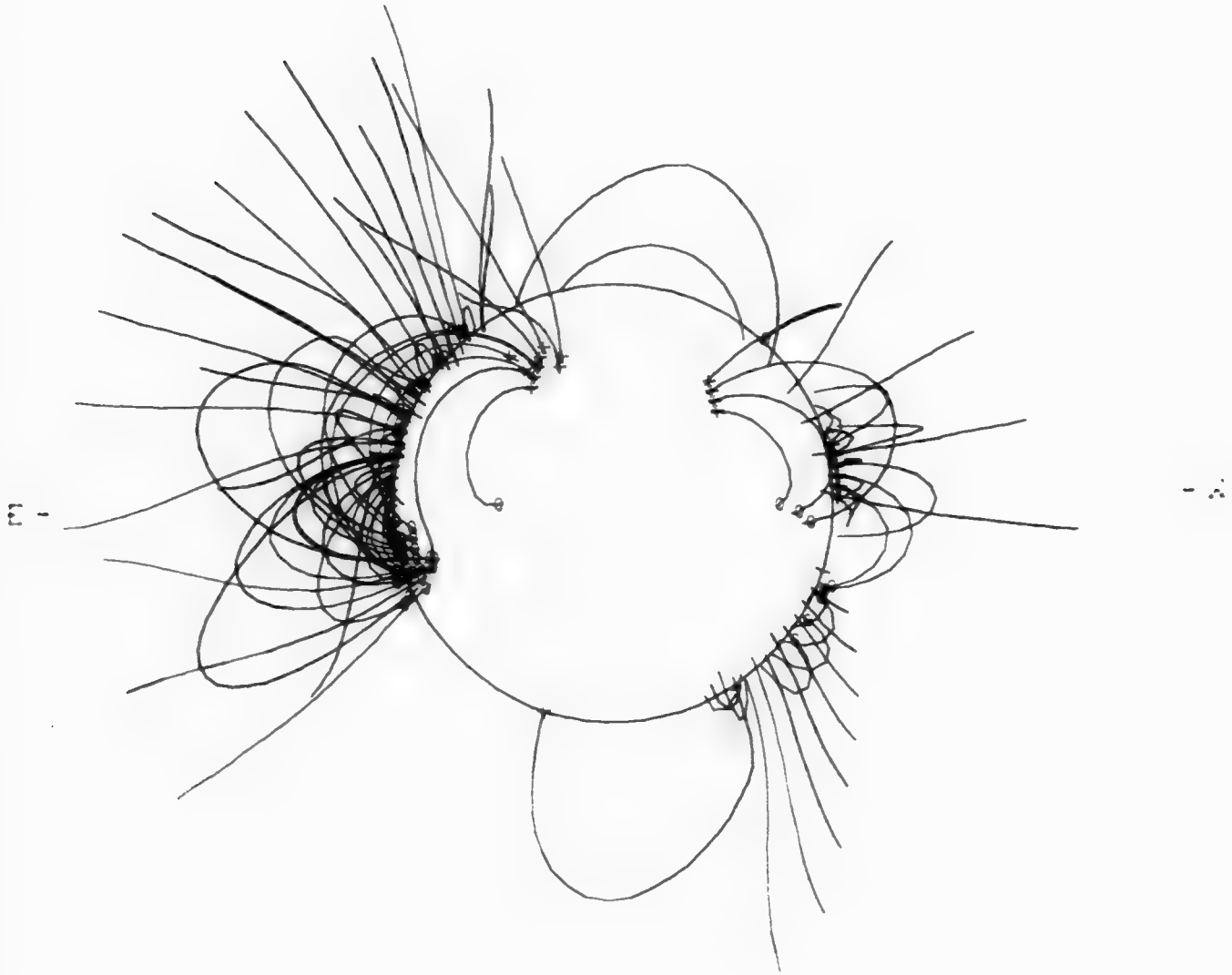


QUALITY FAIR
POLES DIRECT

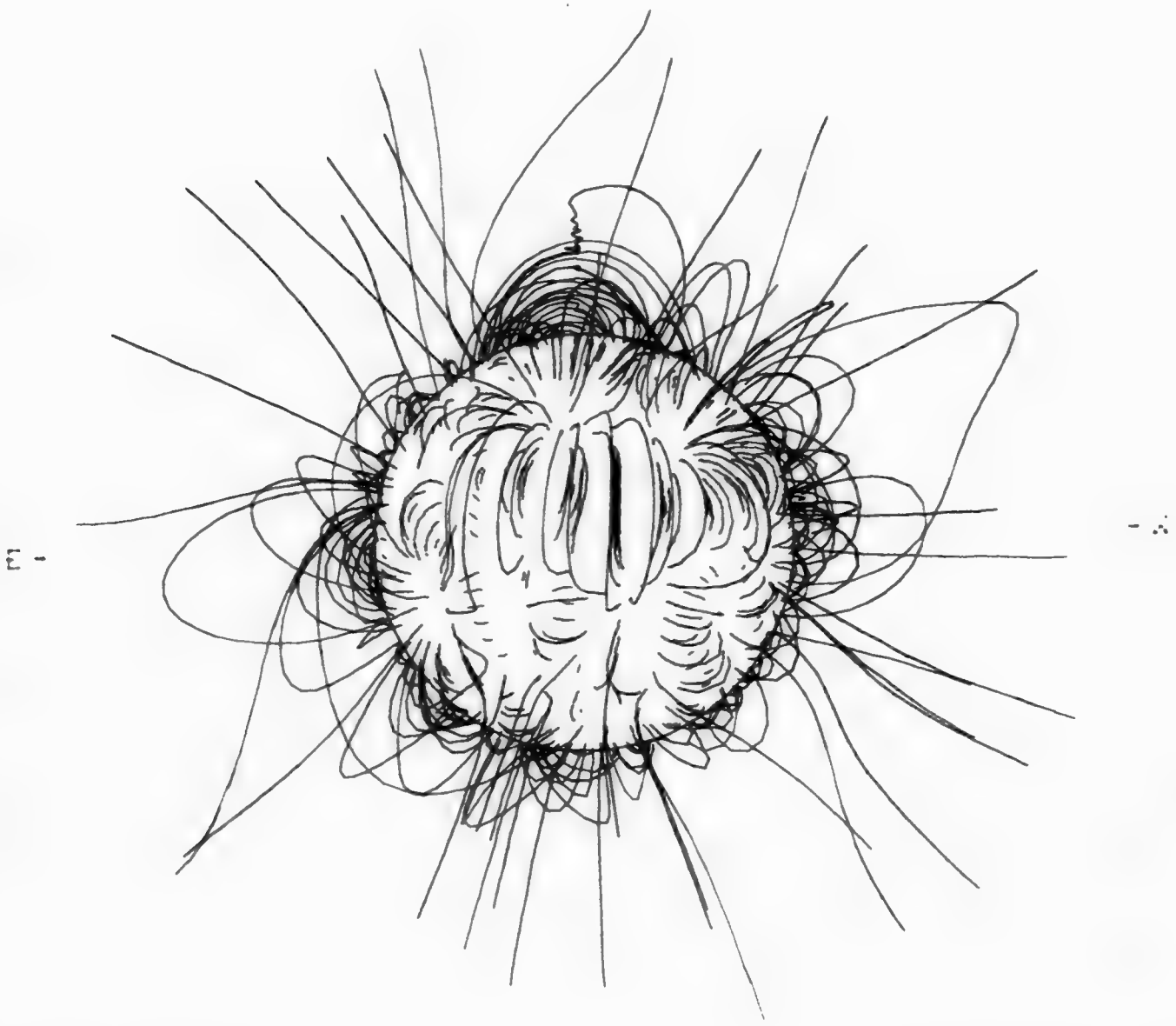
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



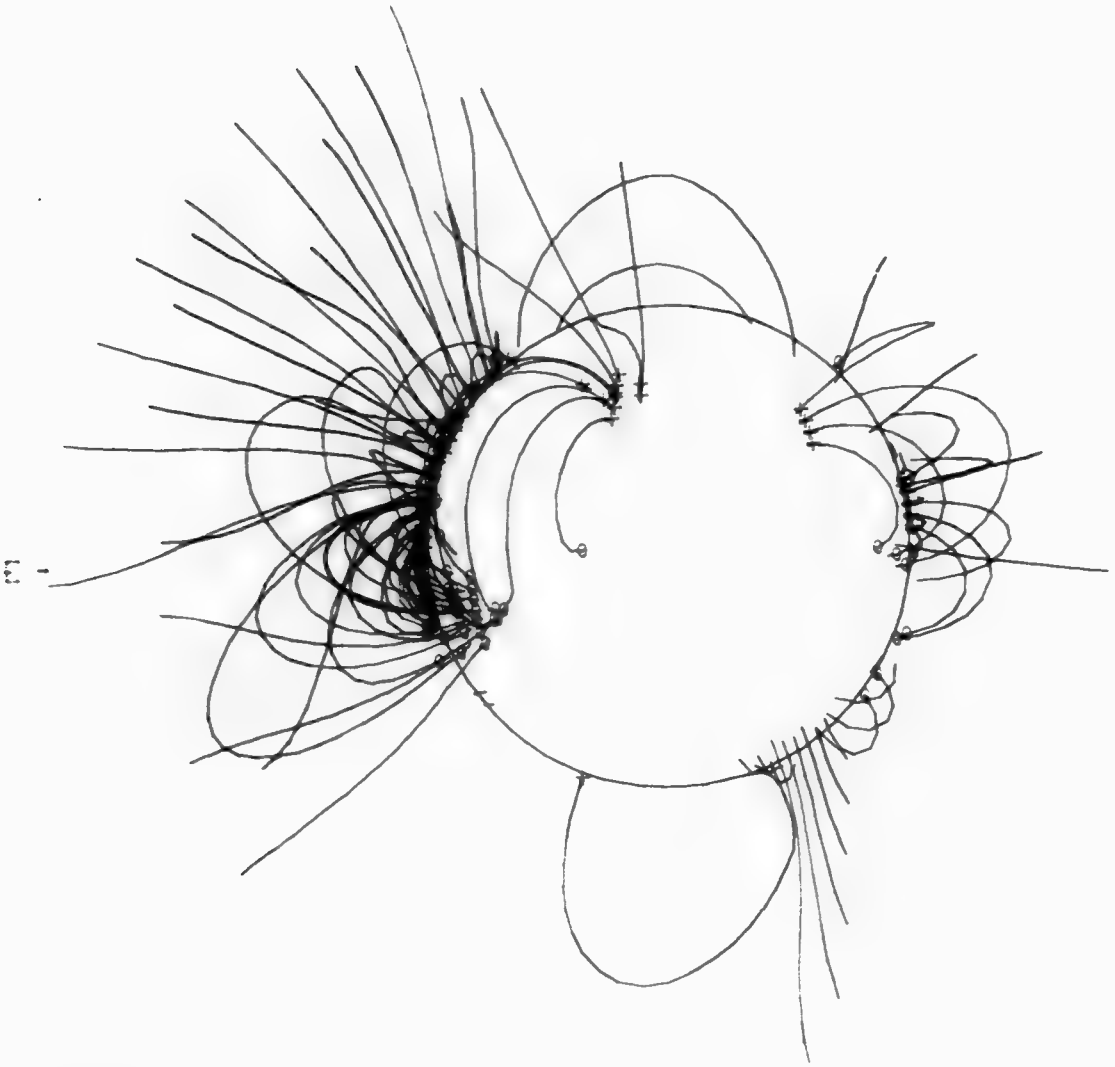
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



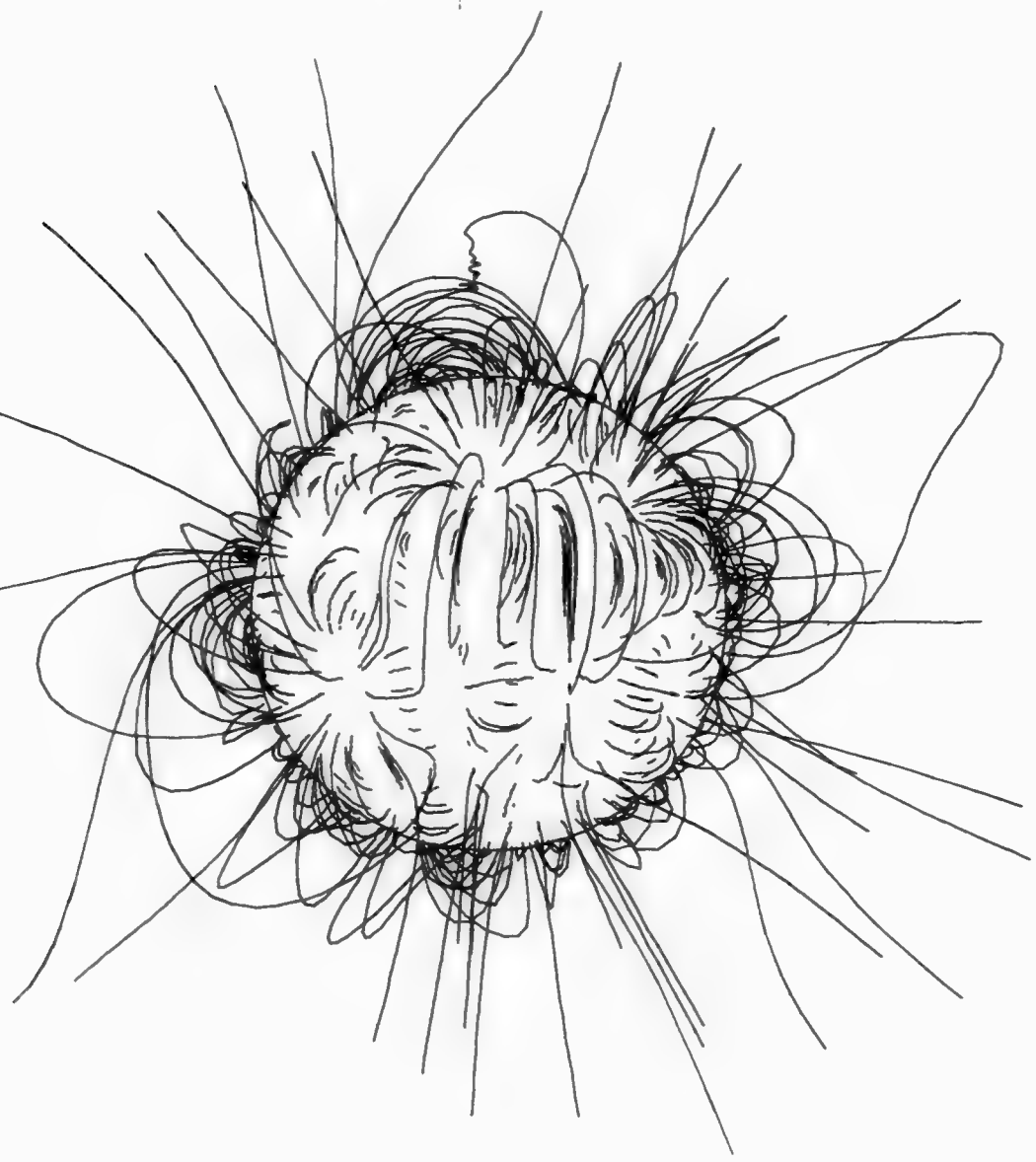
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N

E -

- W

S



QUALITY FAIR

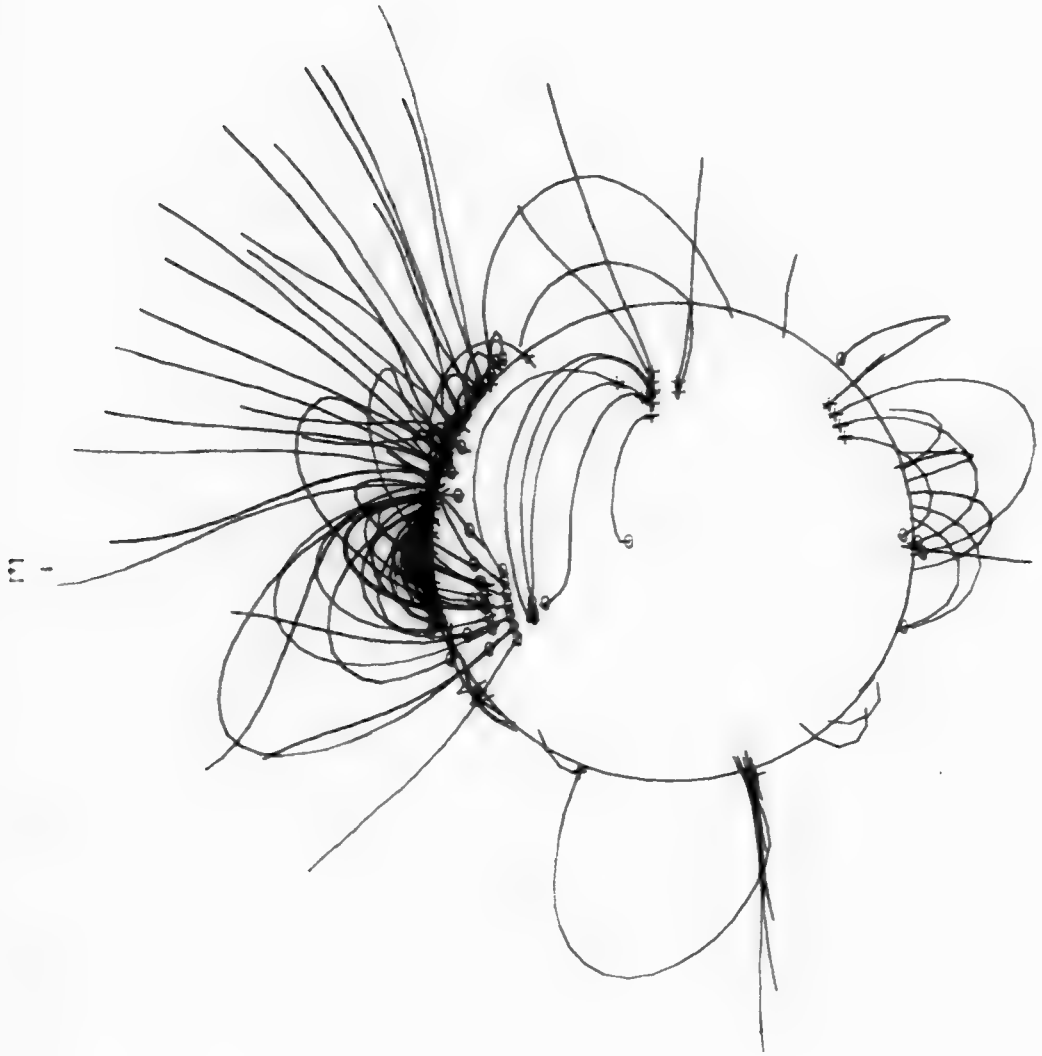
POLES DIRECT

DATA WINDOW 1551.1+

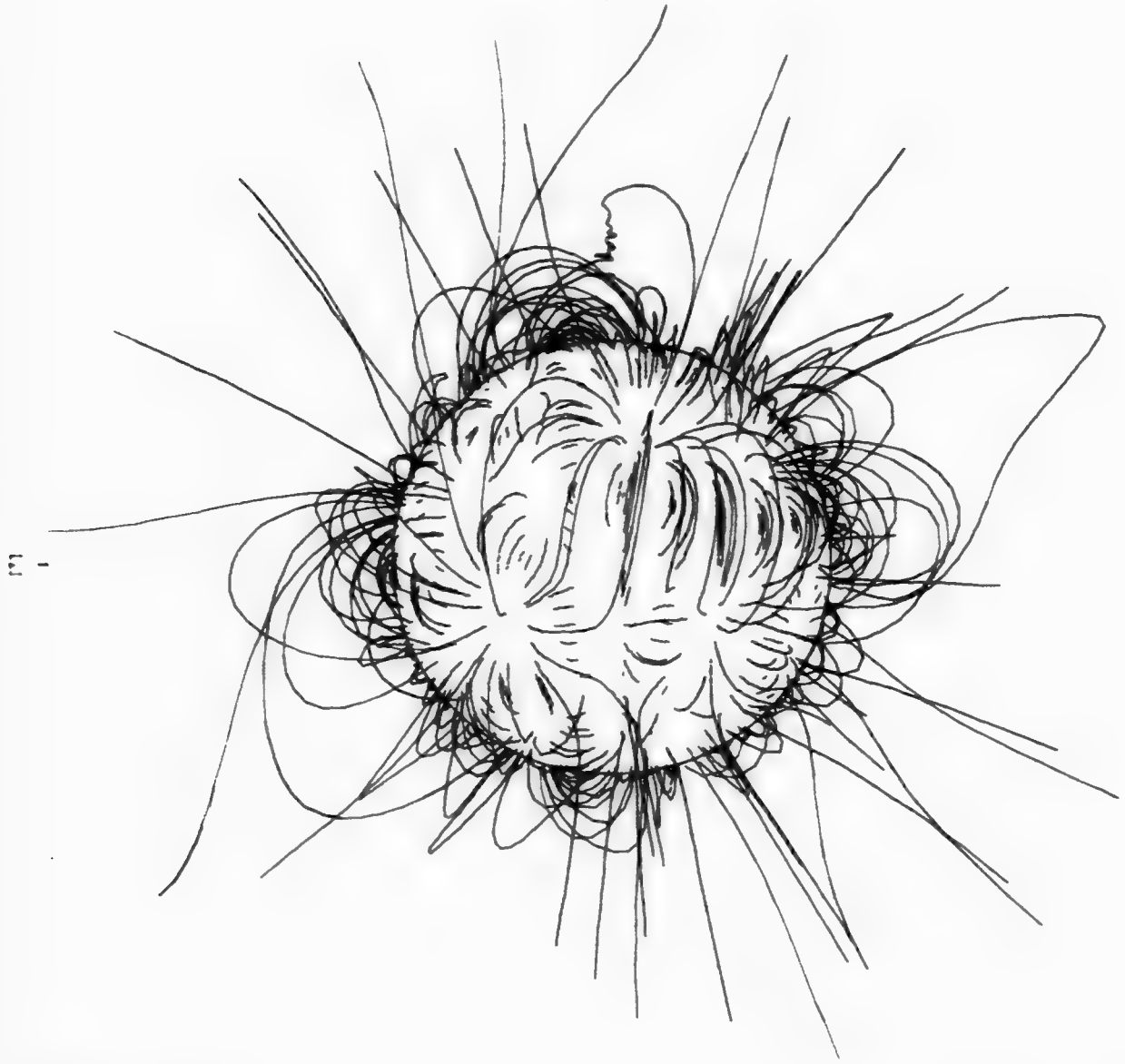
ROT. 1551 LONG. 240°

19.5 AUG 1969

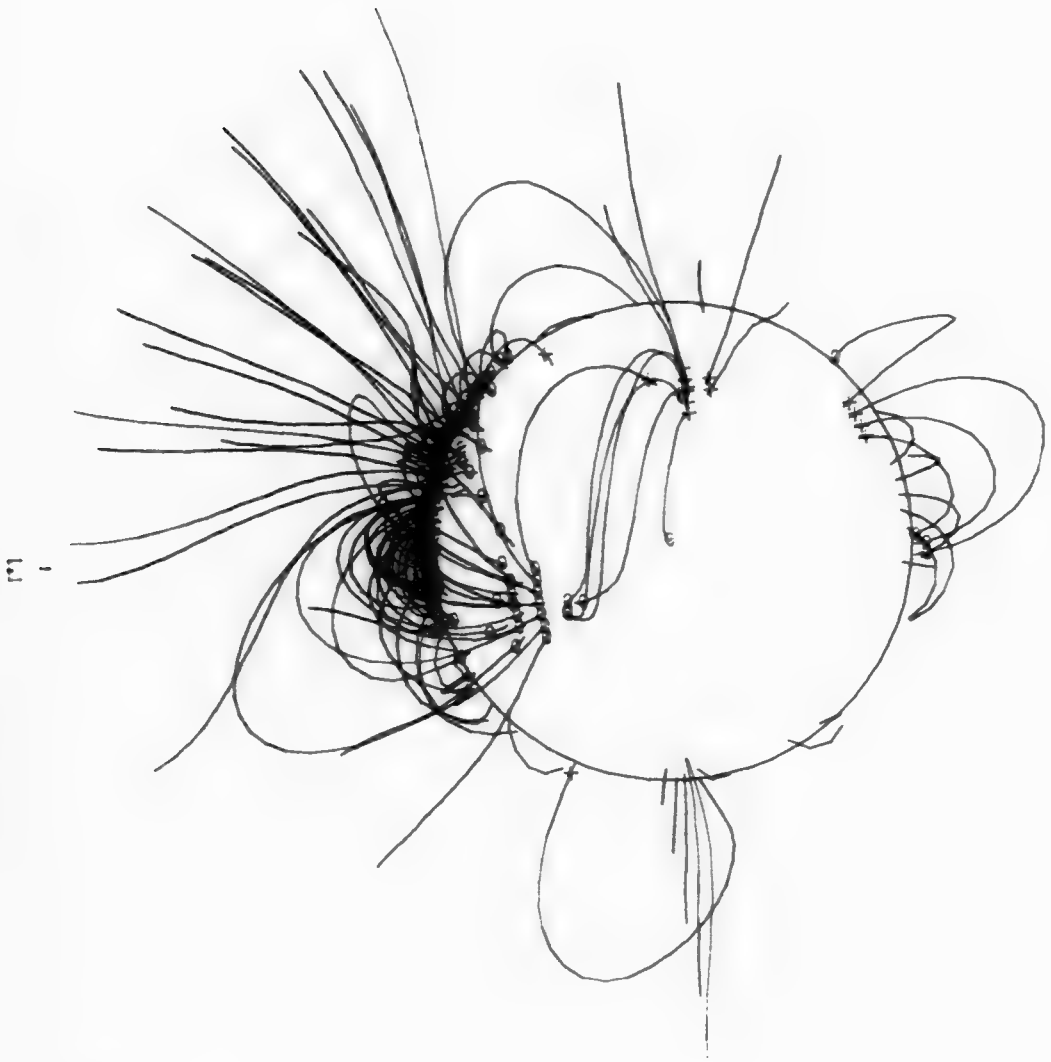
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



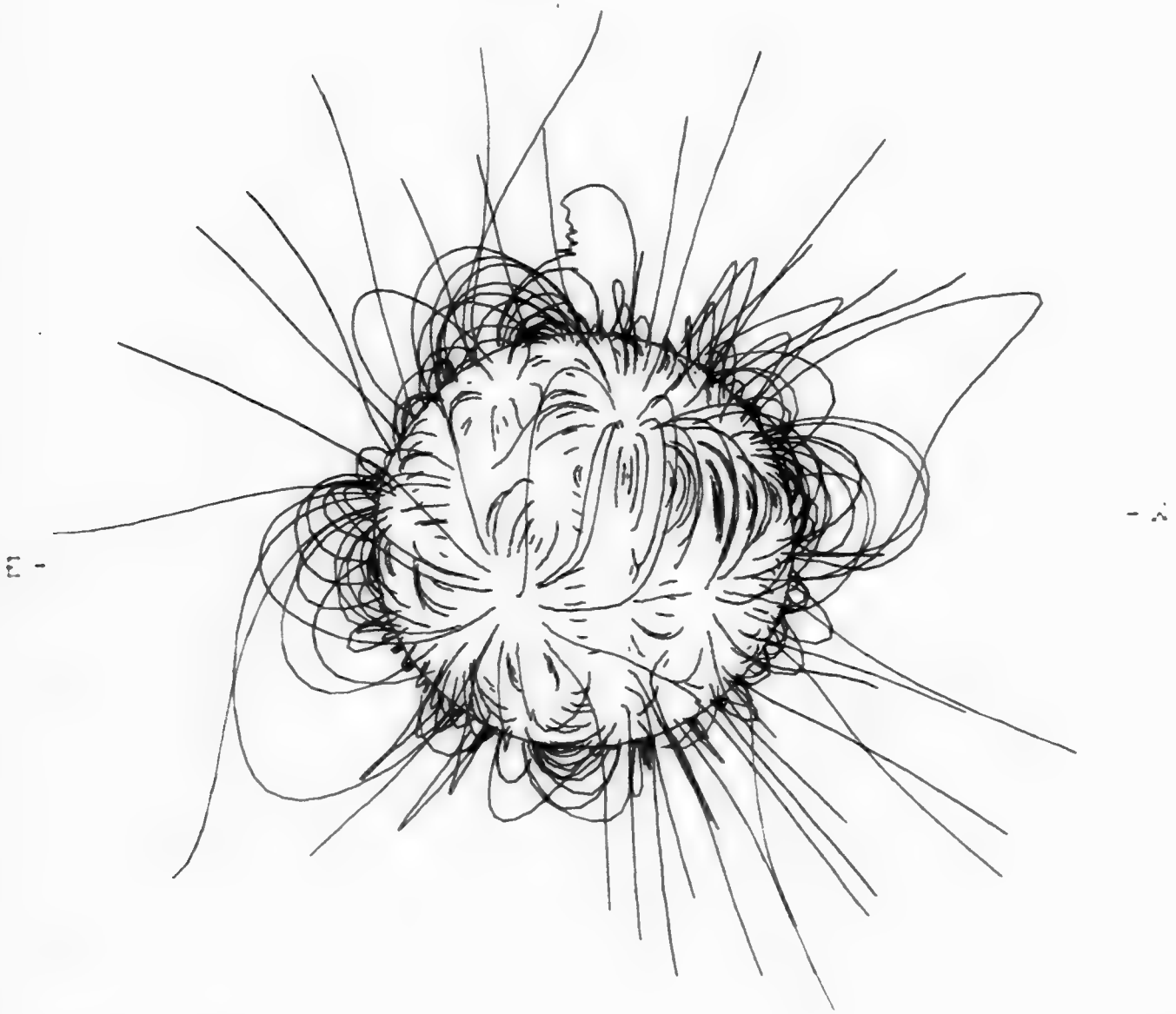
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



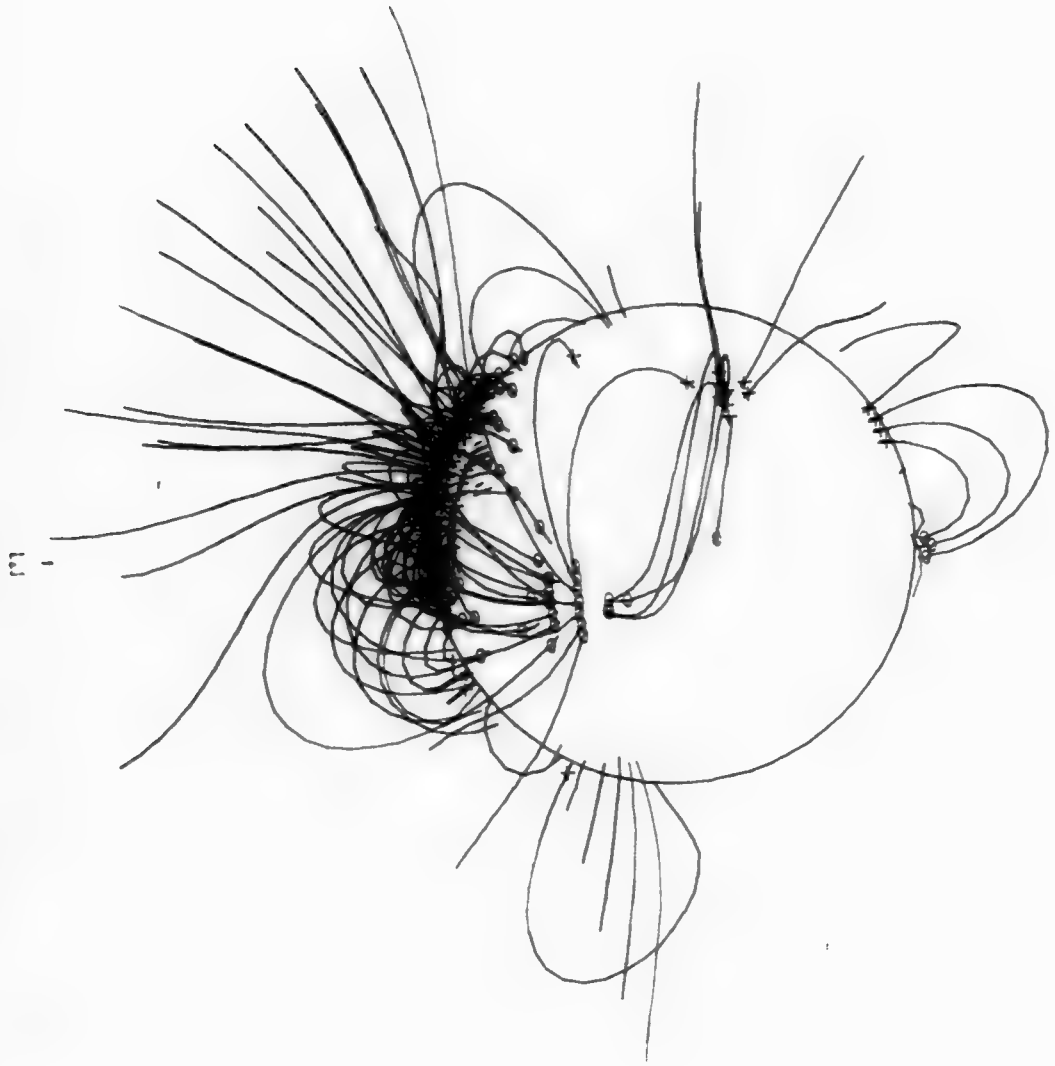
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



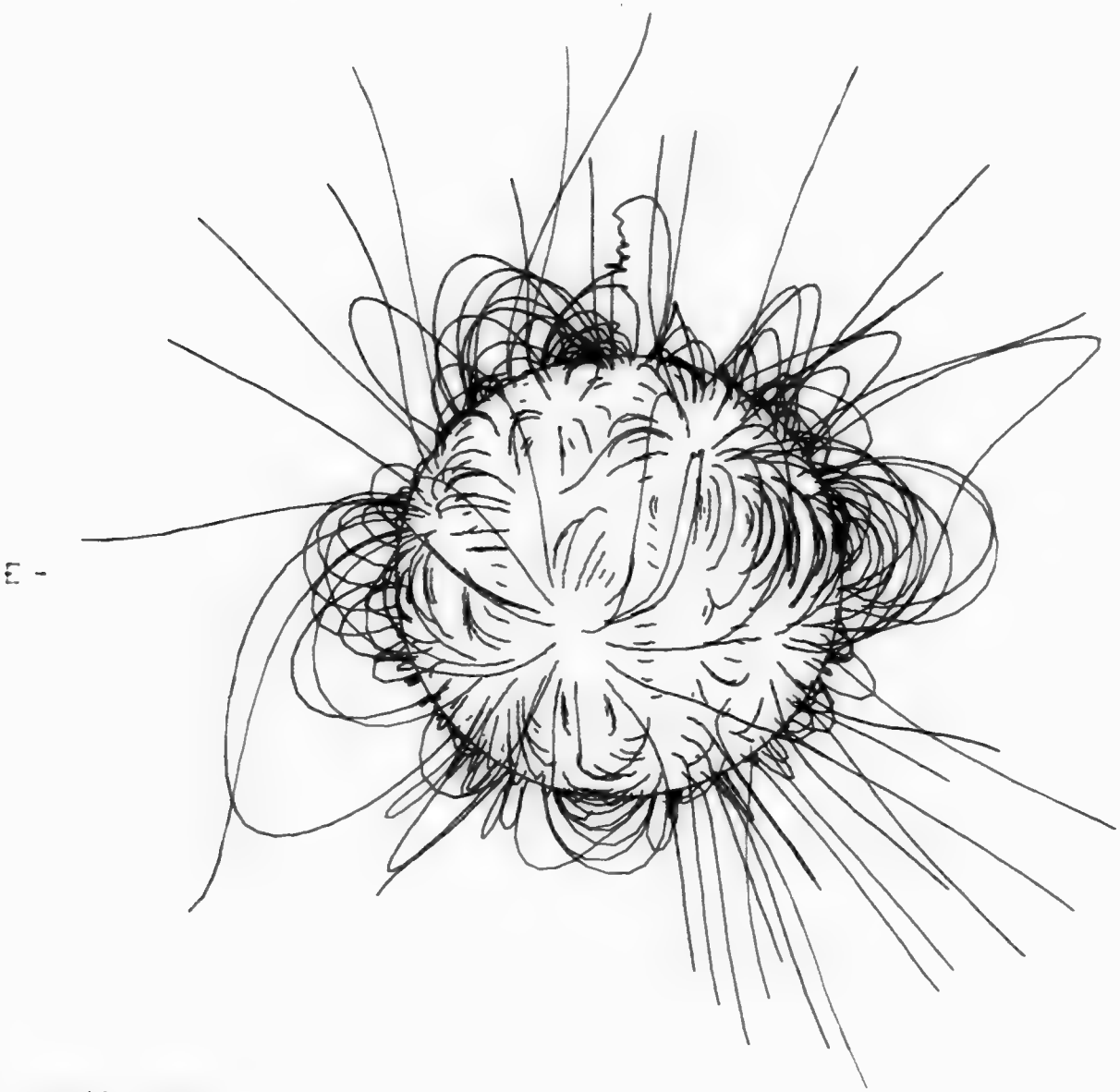
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



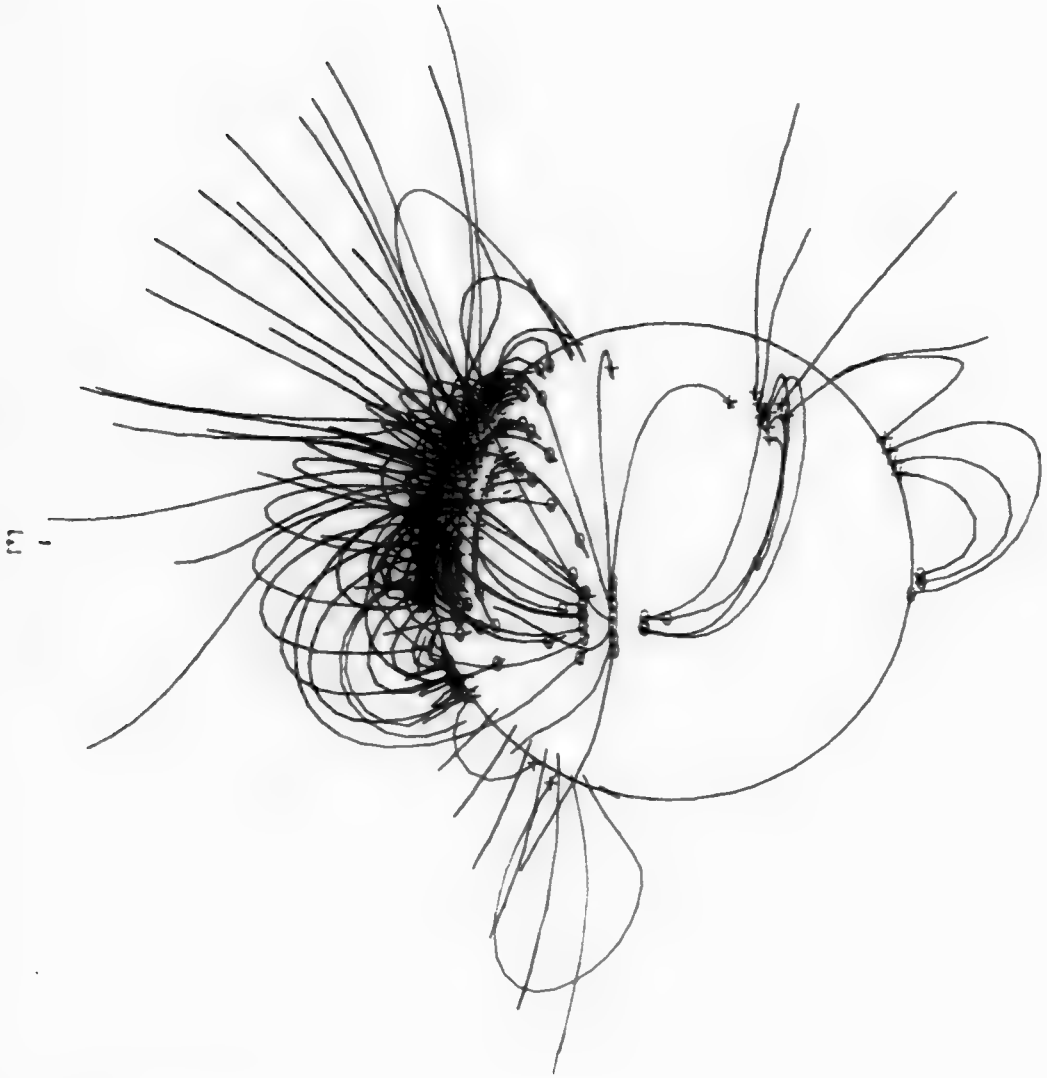
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



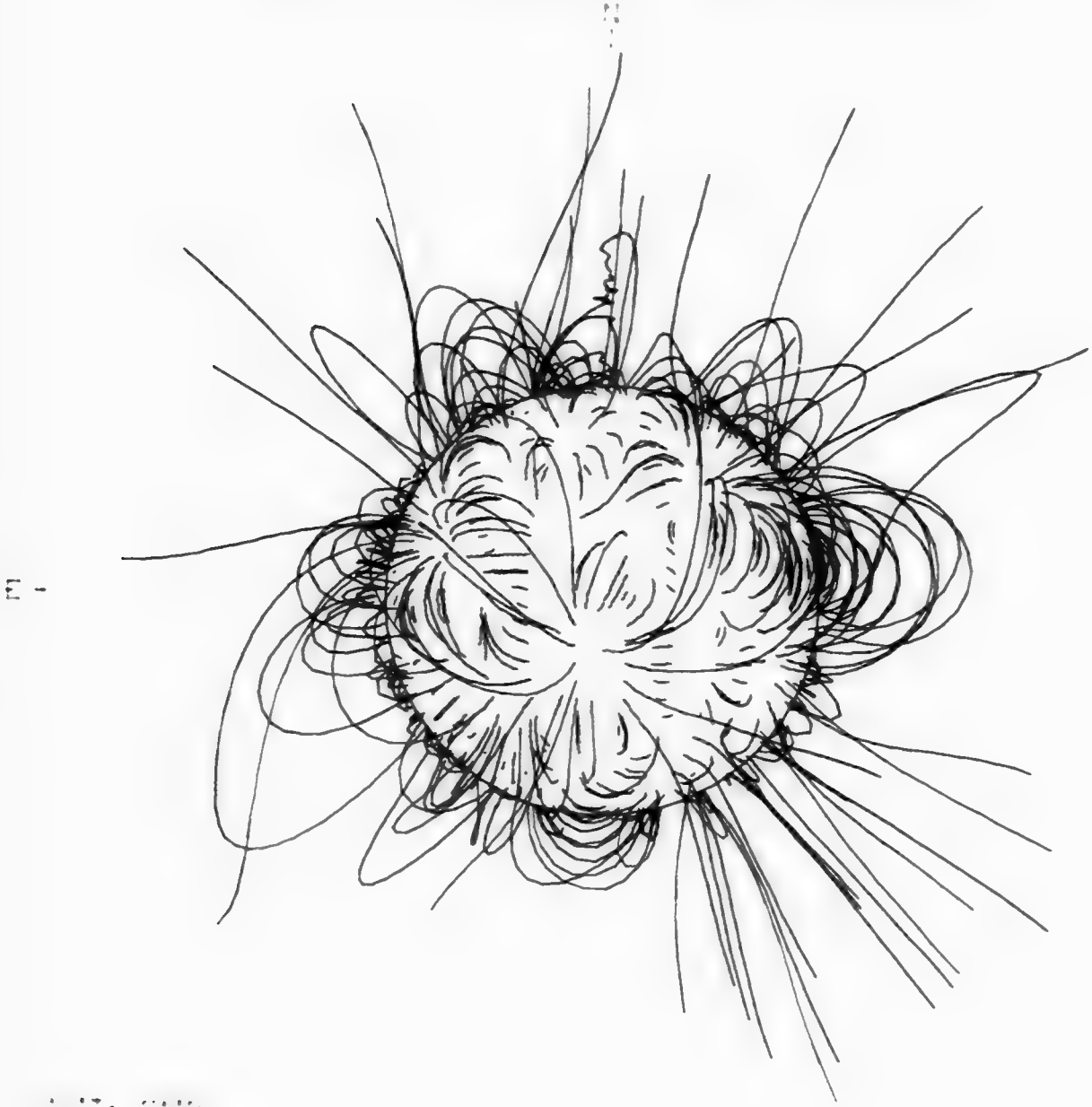
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



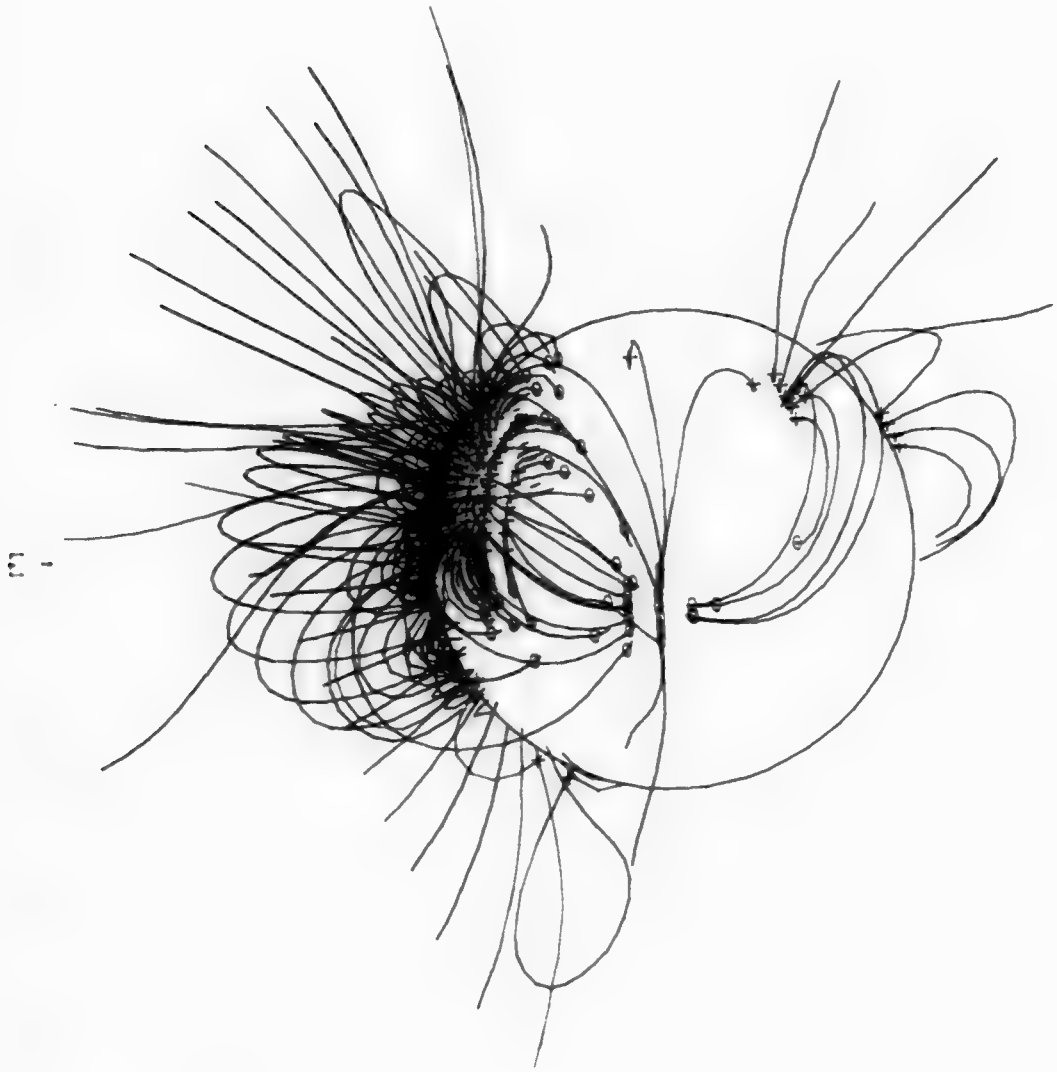
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



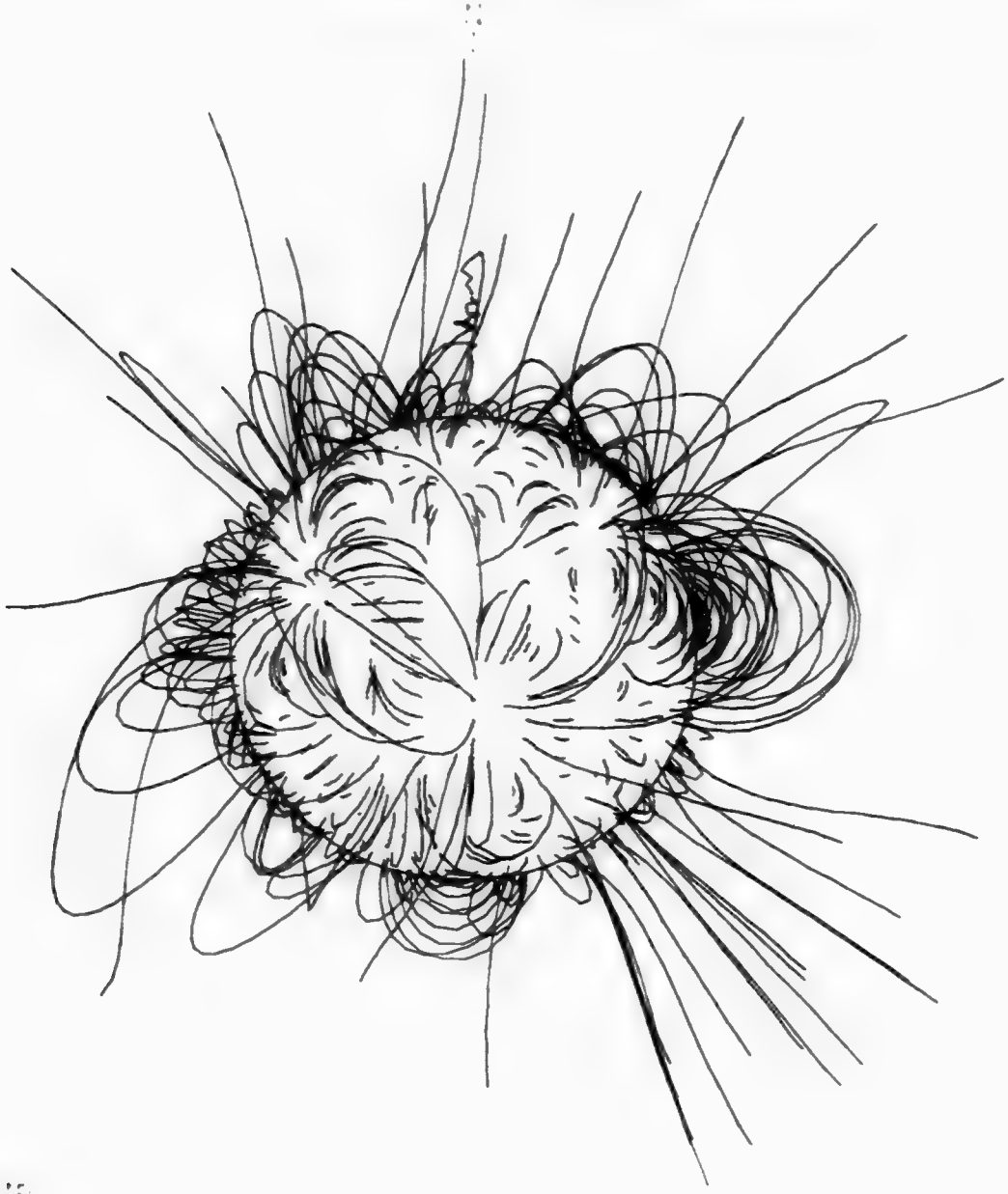
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



E -

- A

- ALIT. PAIR

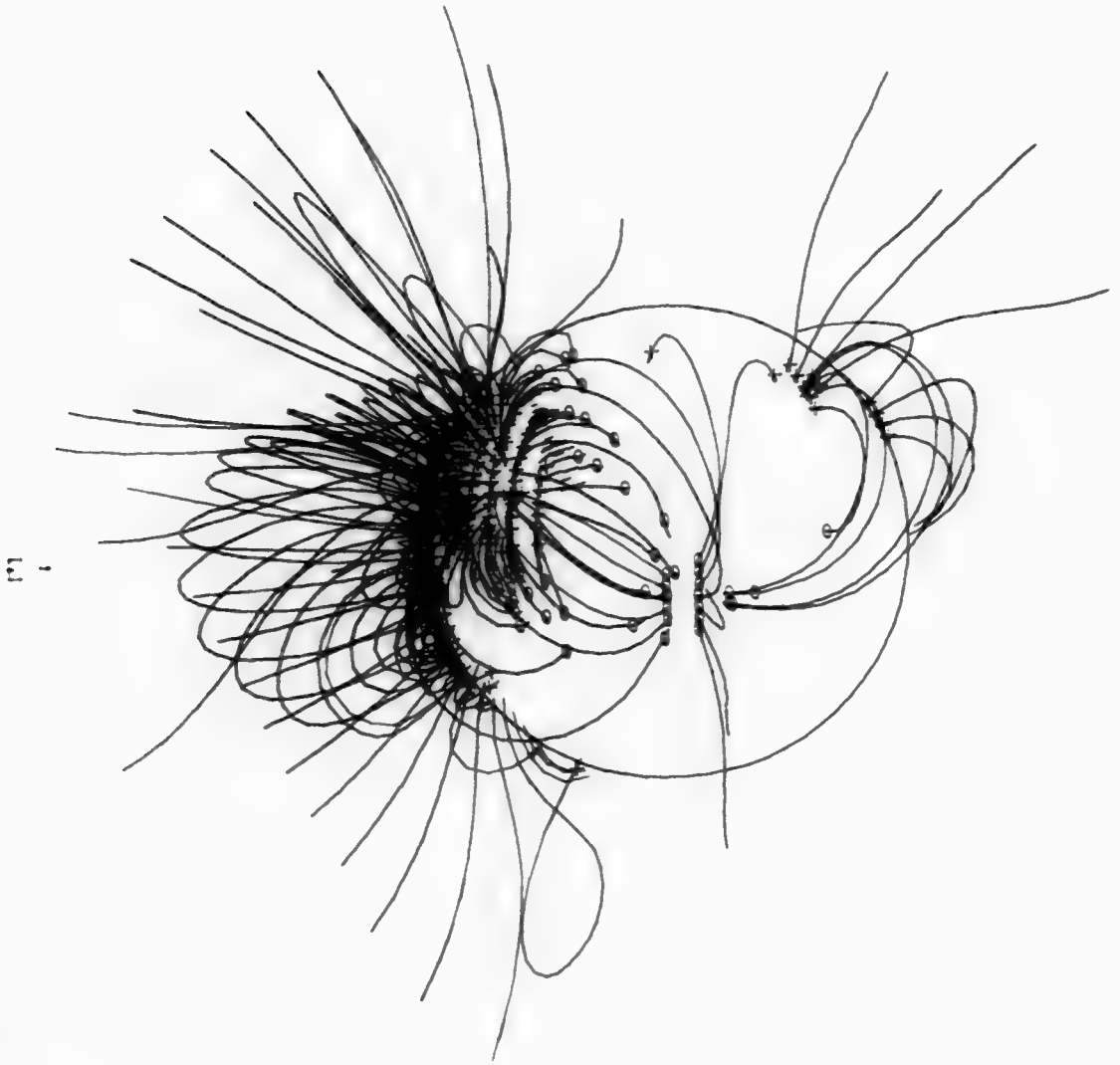
PALES DIRECT

DATA WINDOW 1951.19

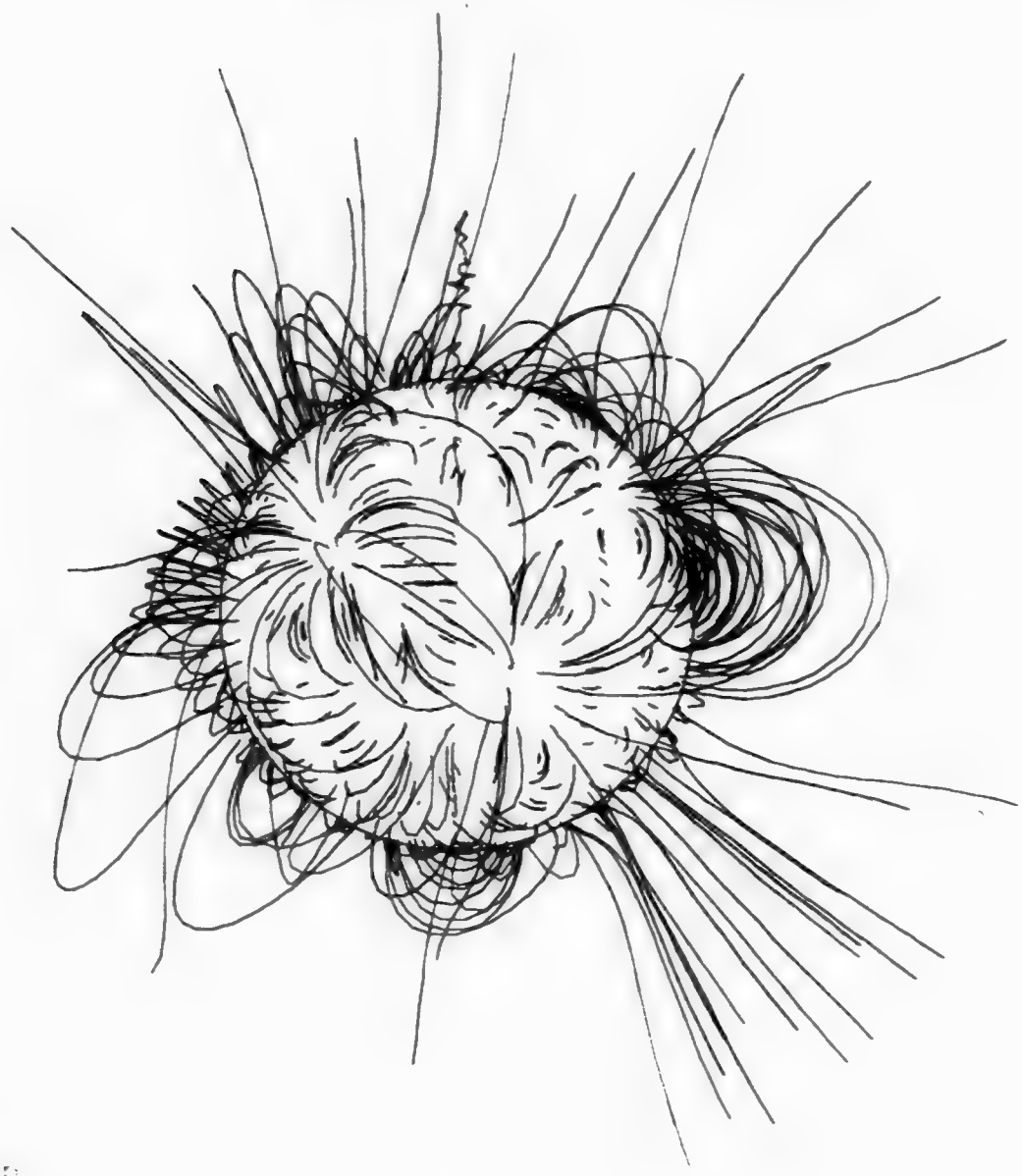
R.T. 155° LONG. 12°

23.3 A.U. 1950

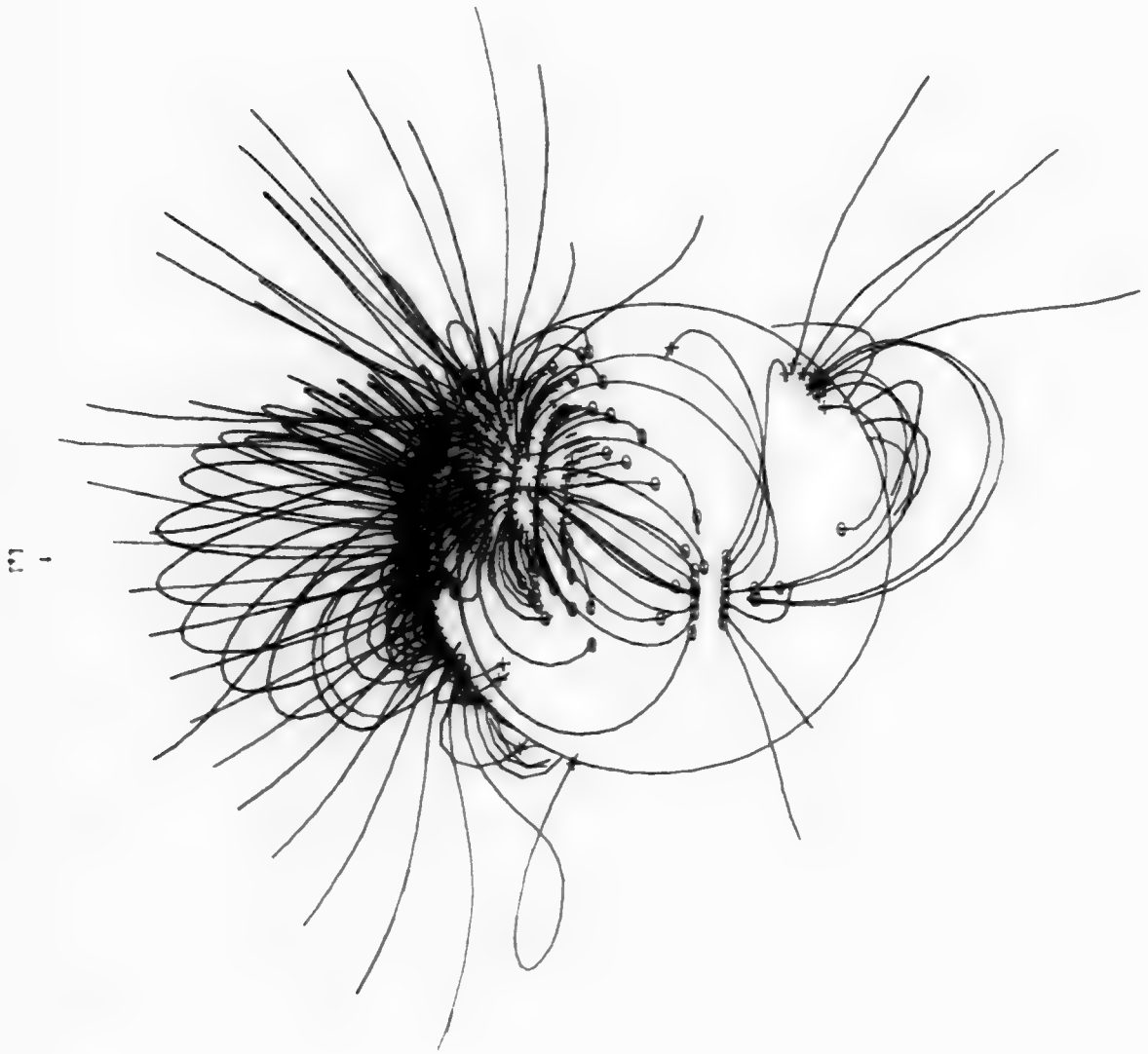
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



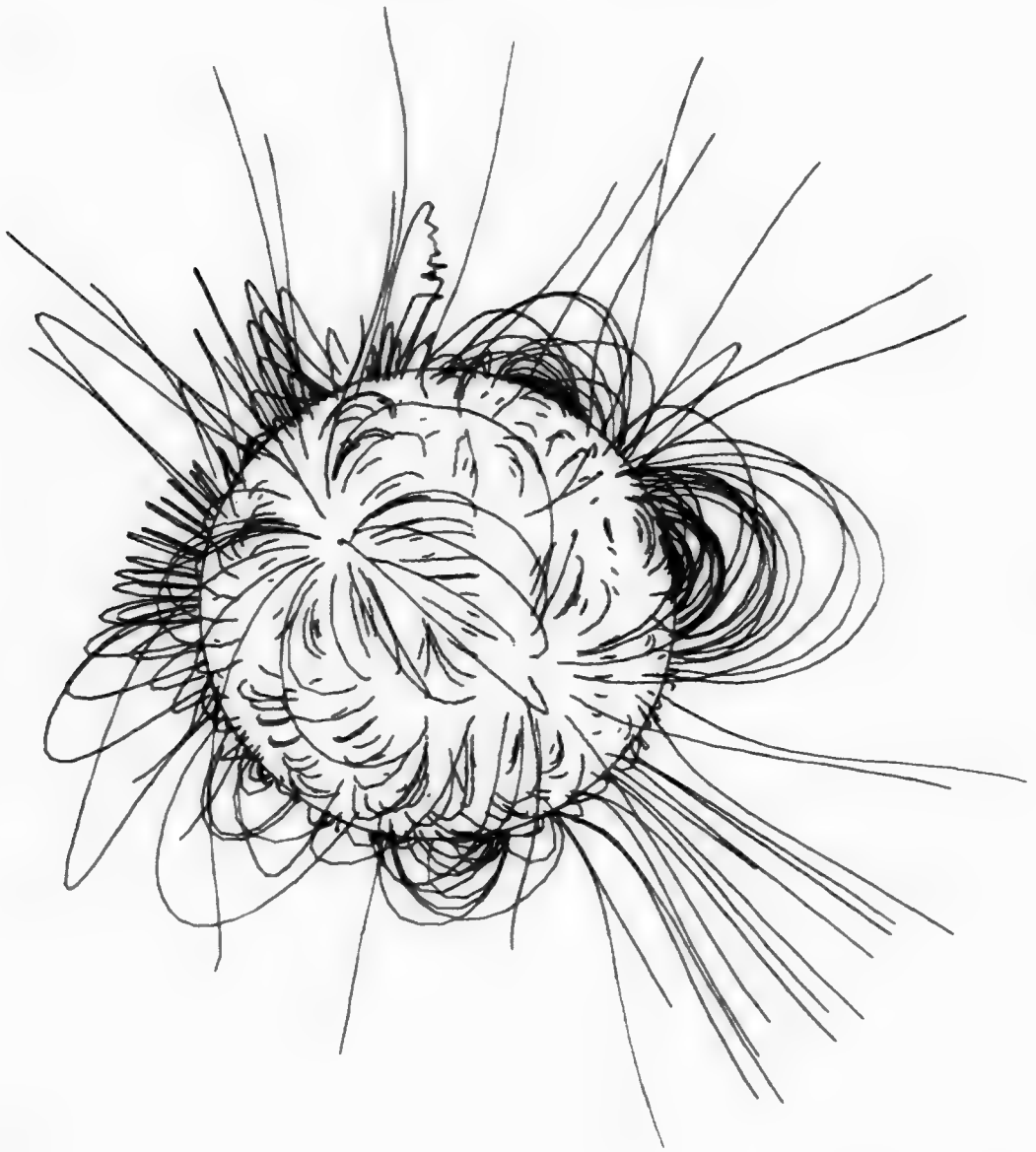
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



QUALITY FAIR

RULES DIRECT

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



E -

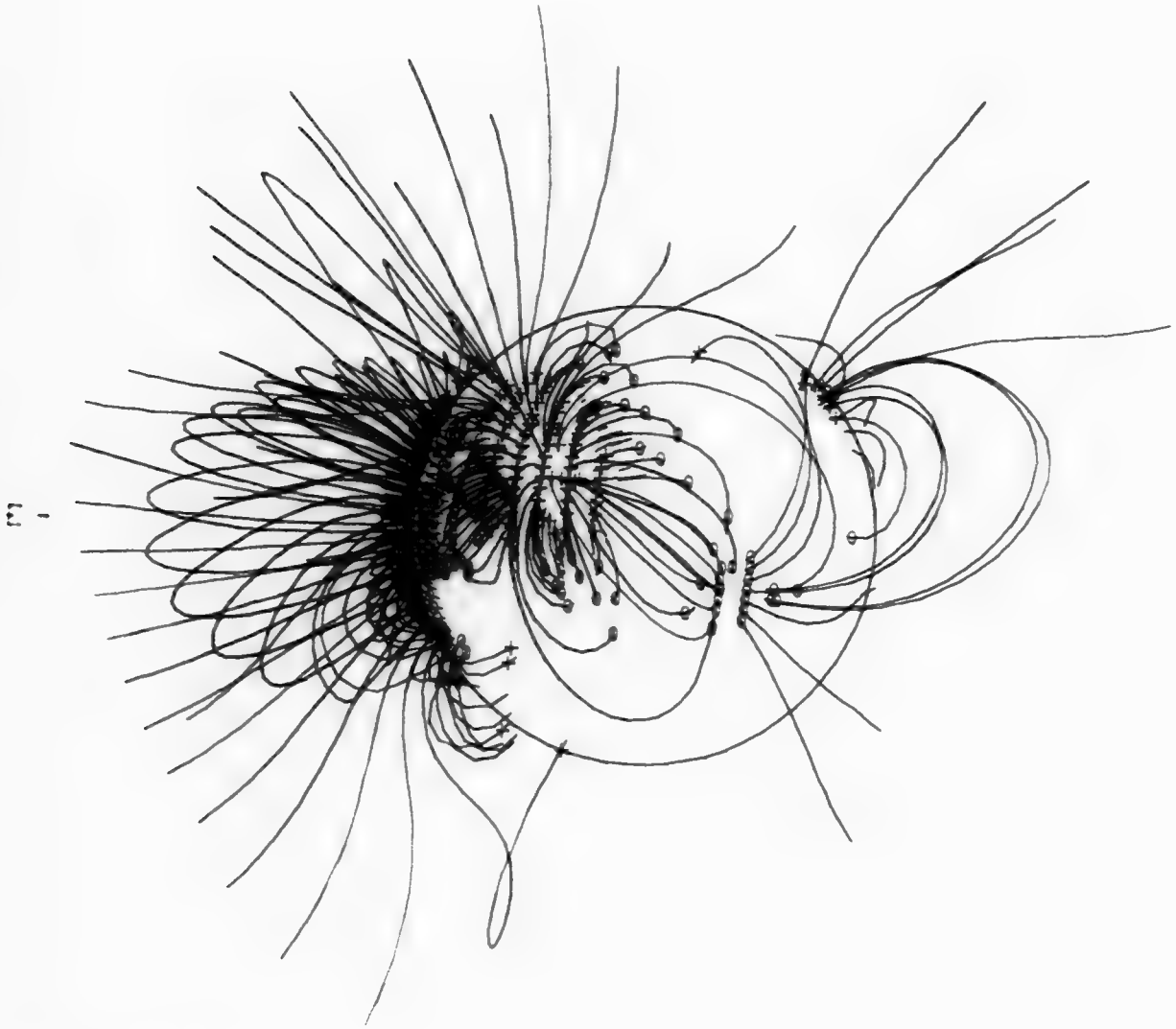
- A

QUALITY FAIR

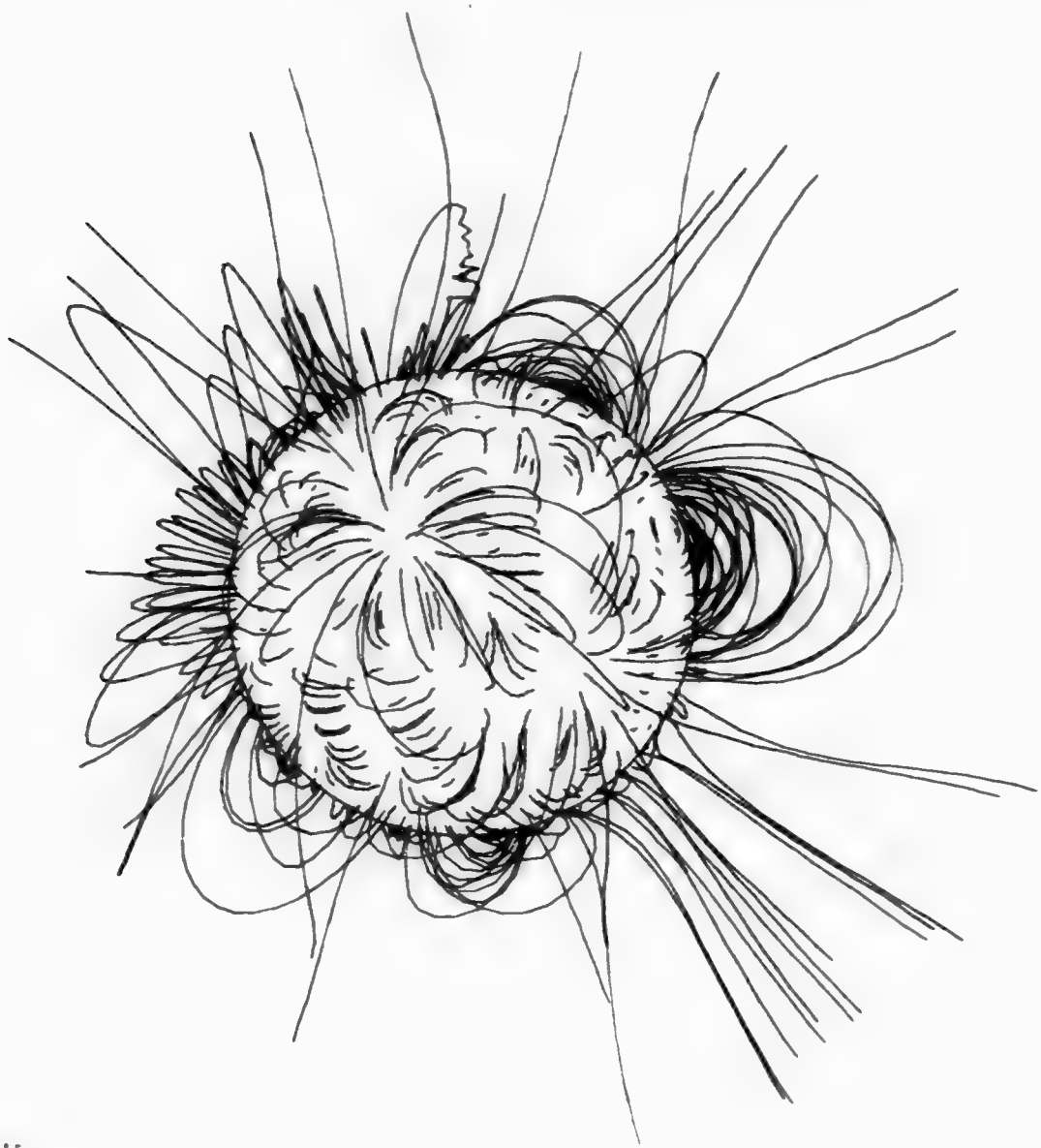
S

ROT. 1551

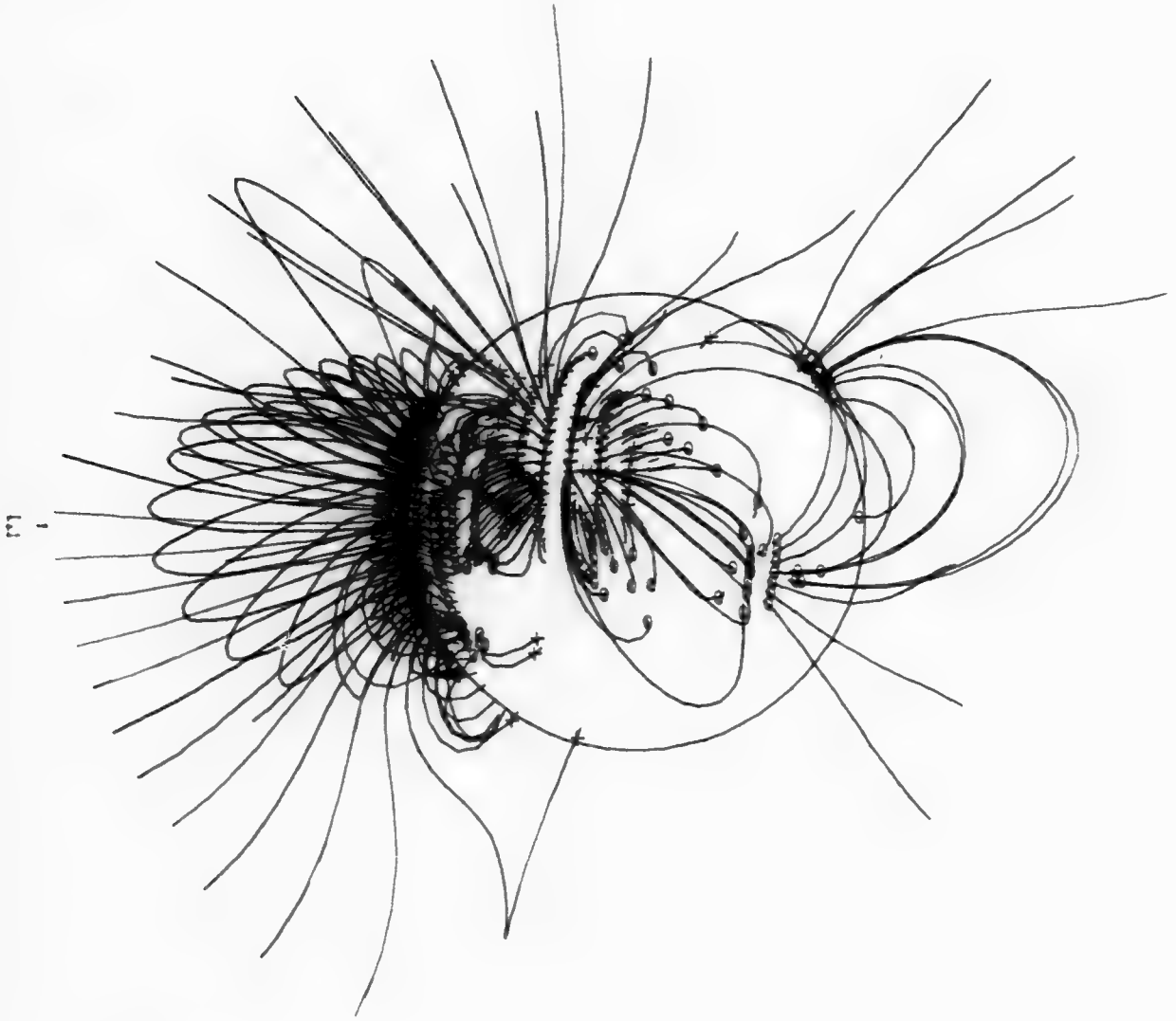
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

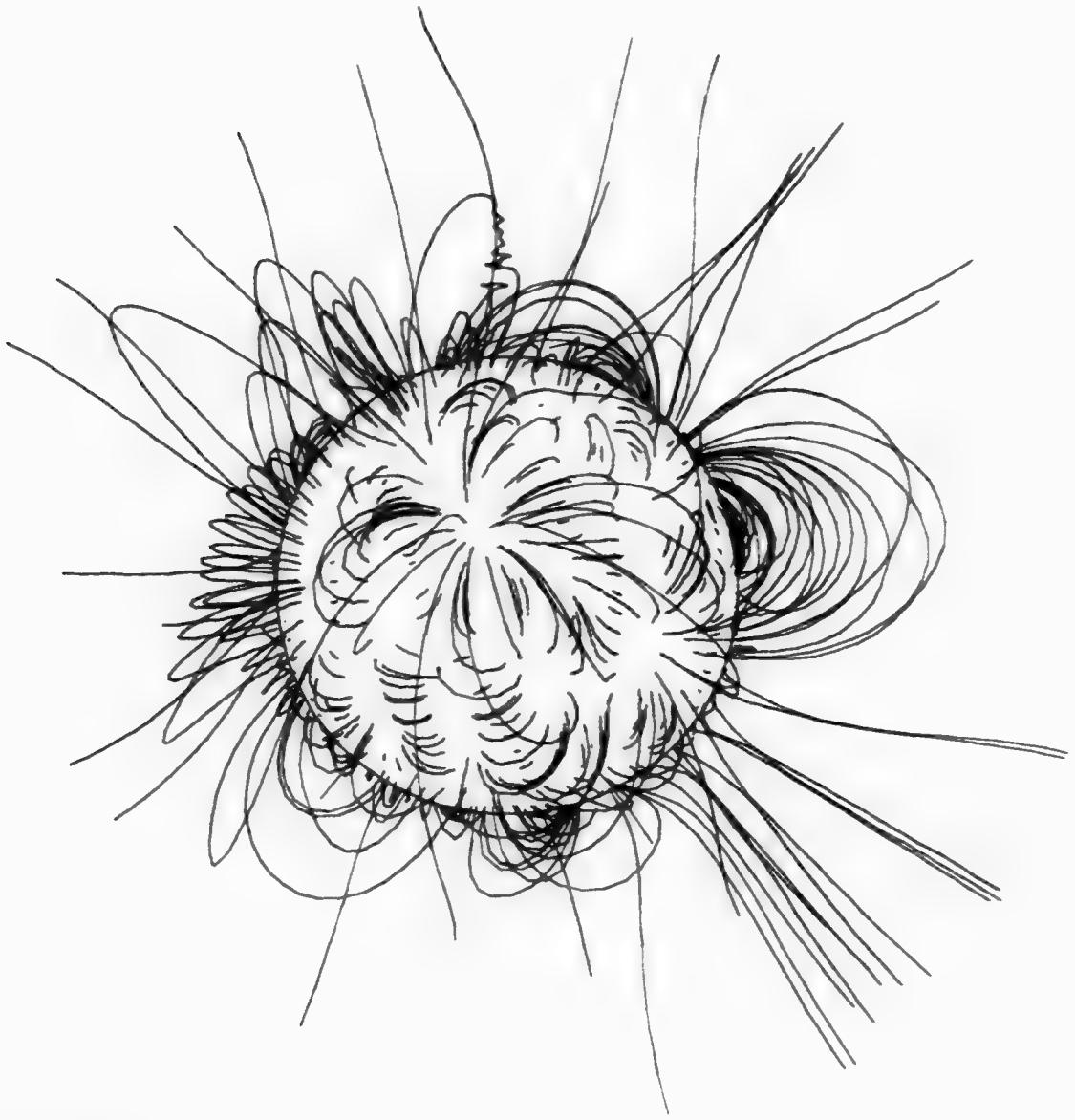


HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

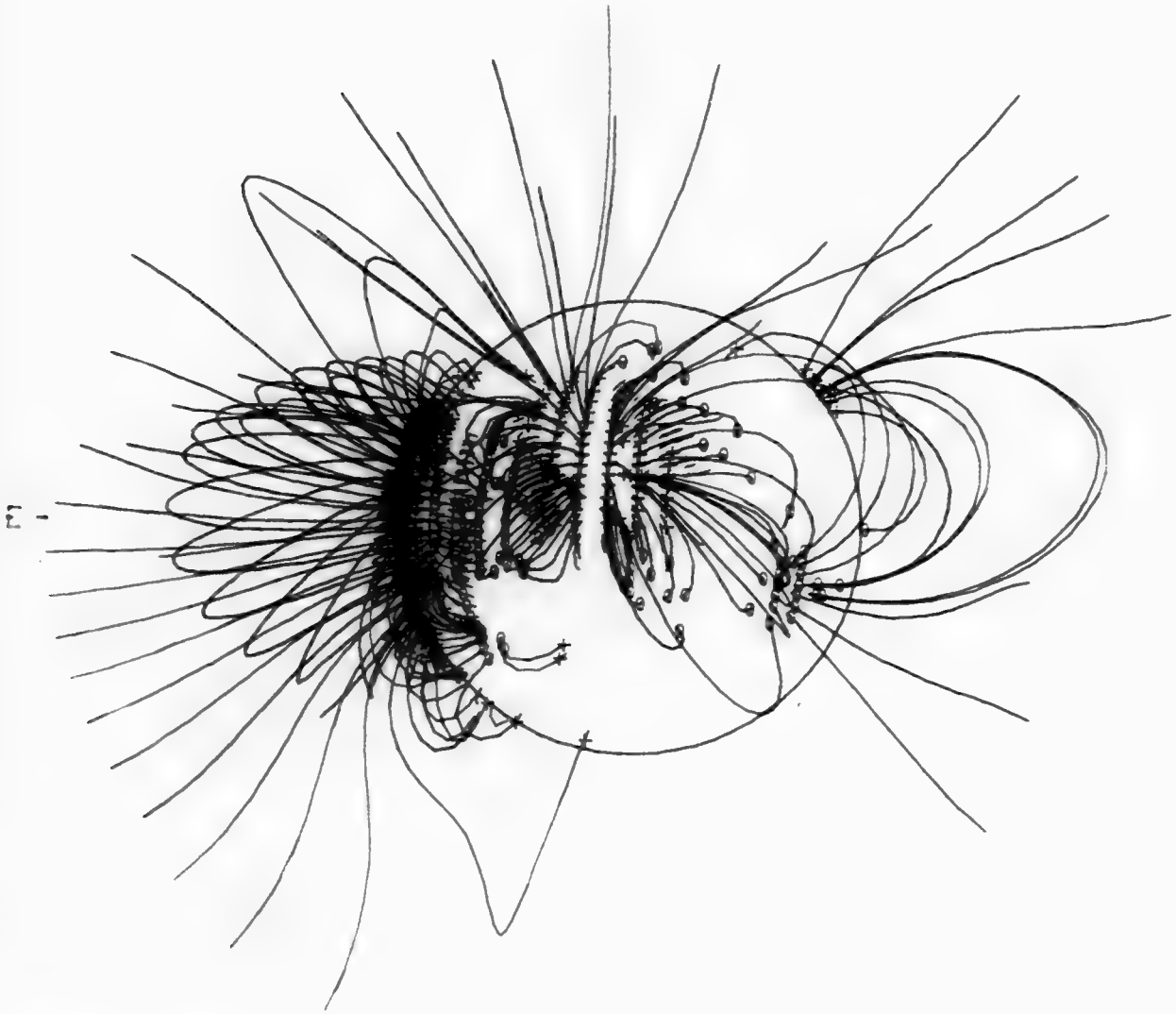


[illegible]

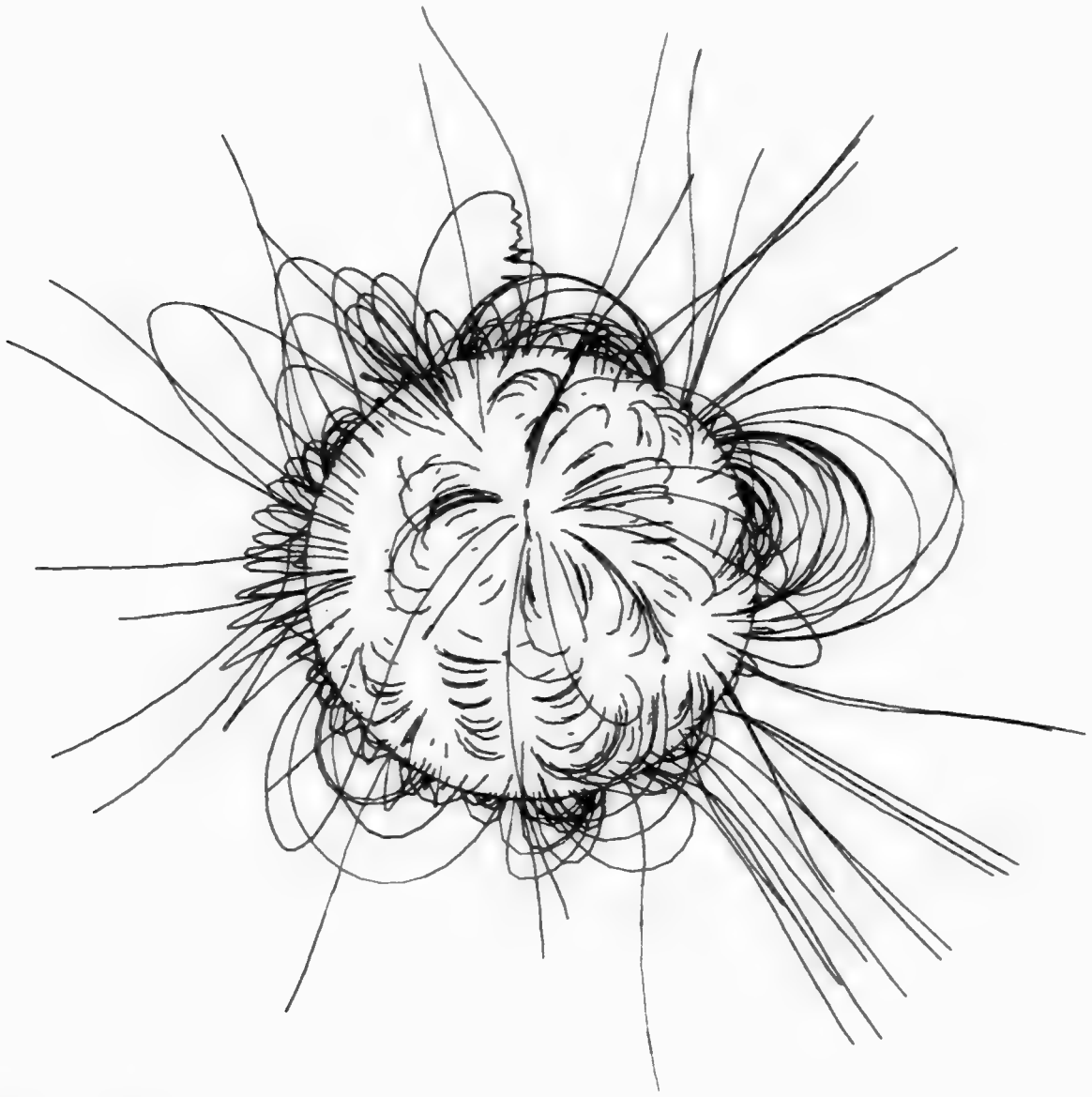
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



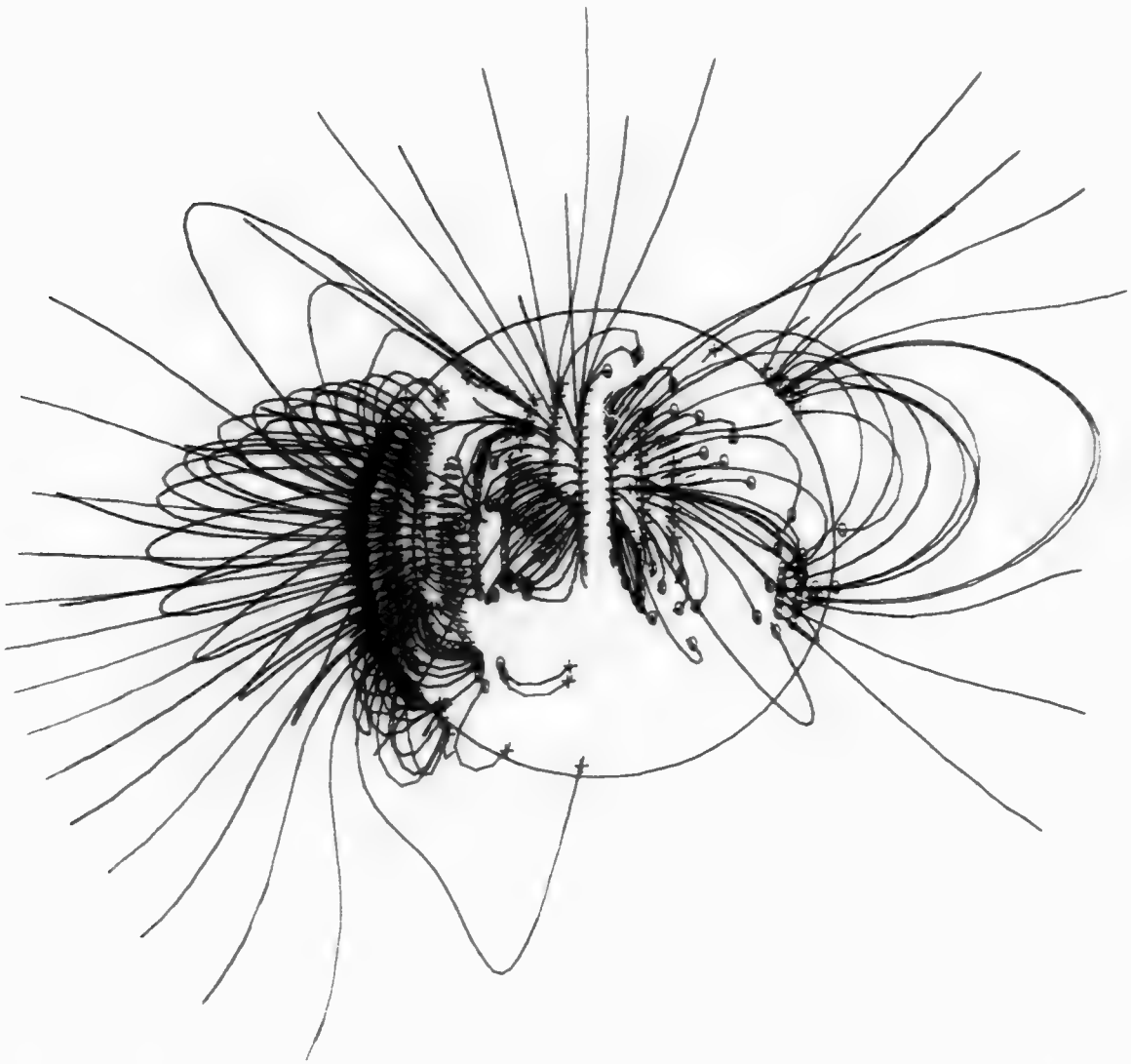
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



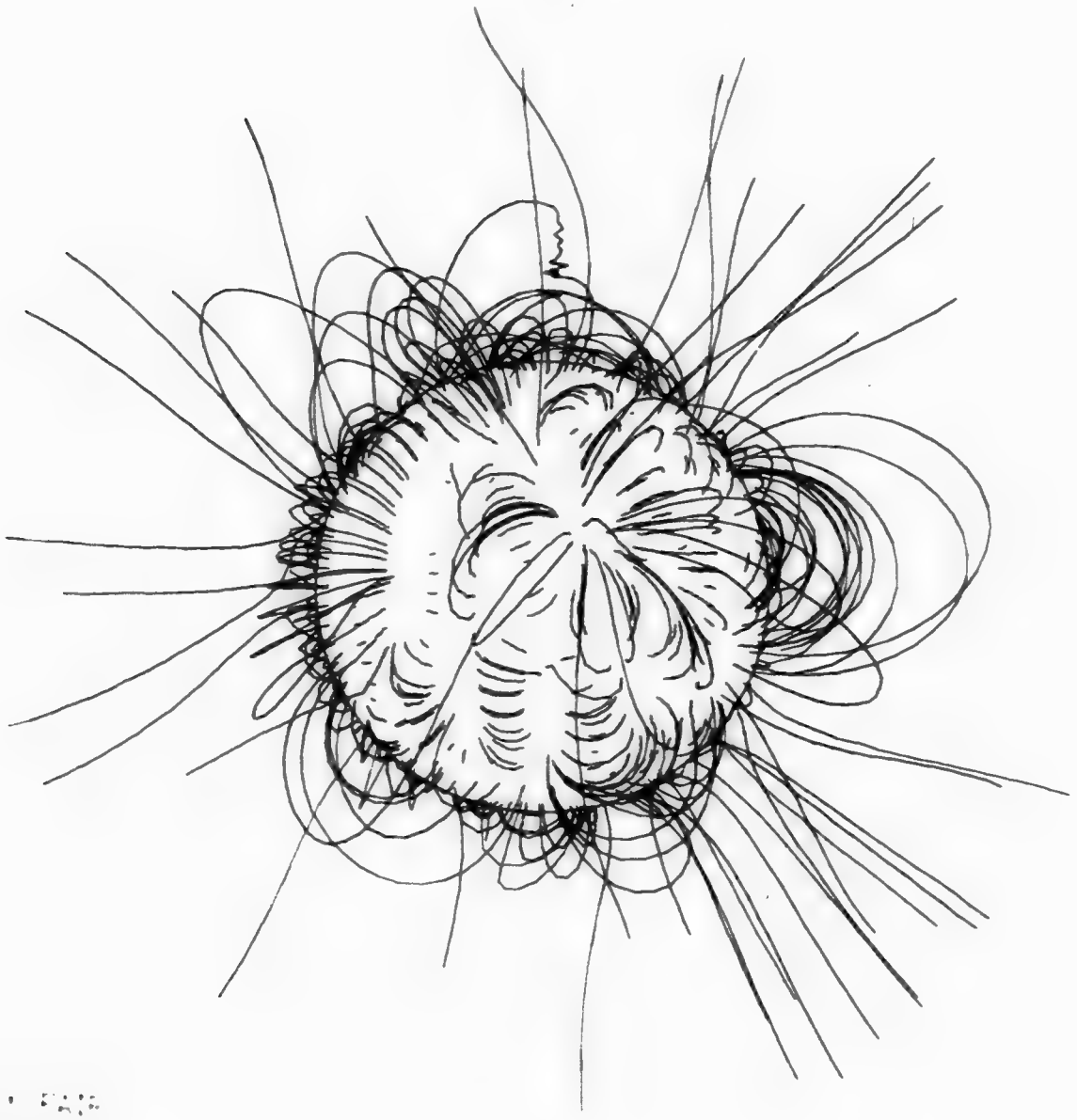
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



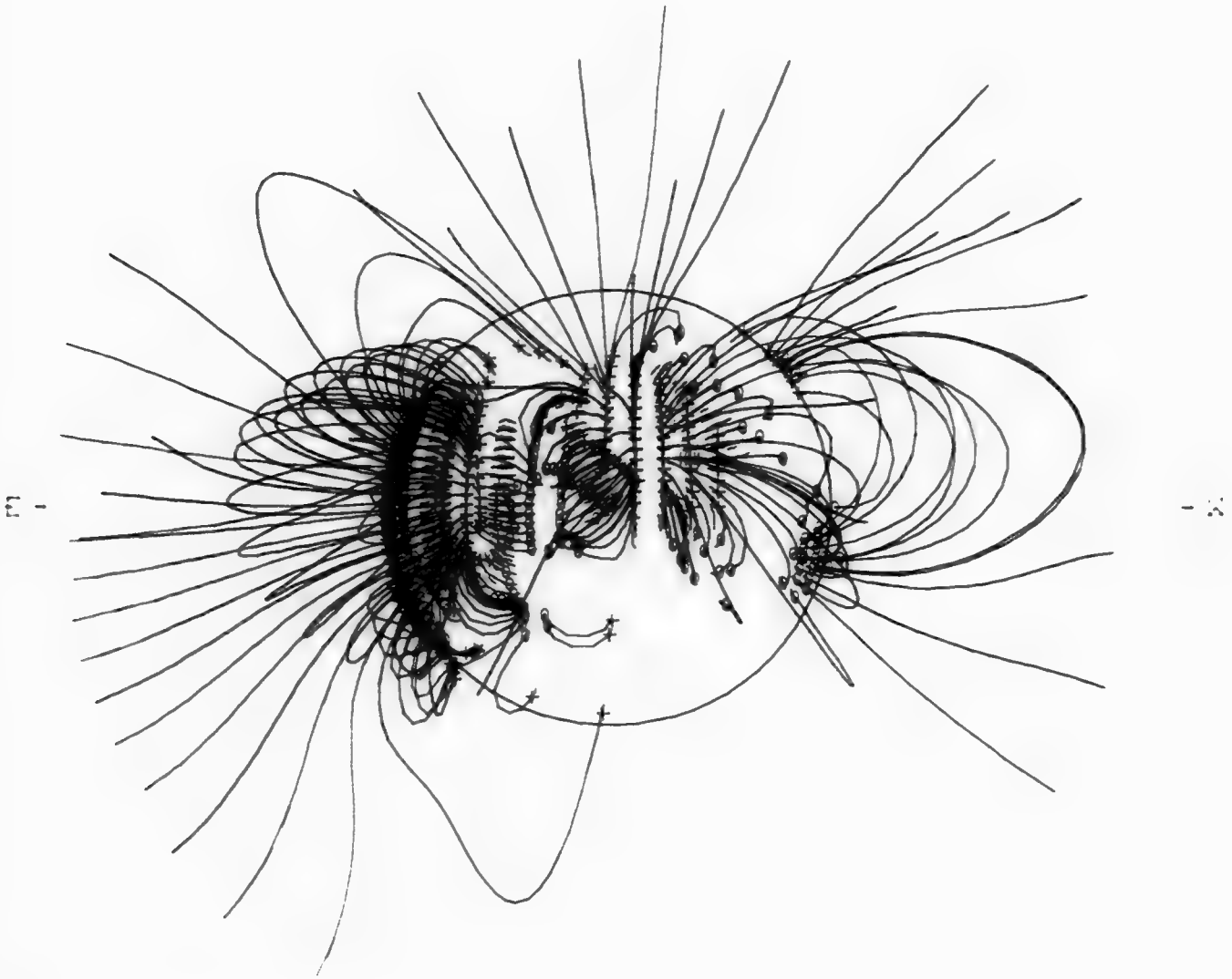
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



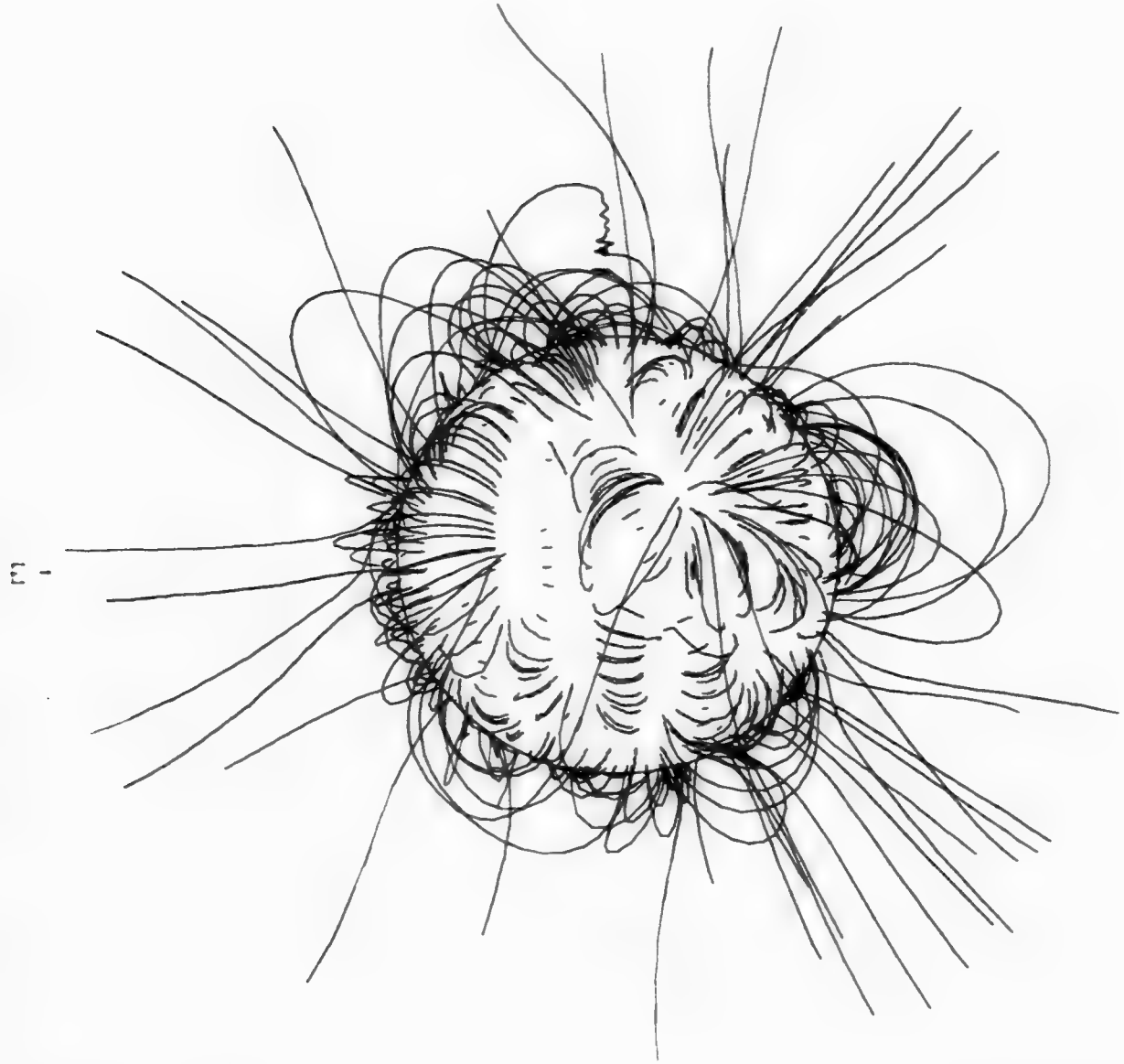
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



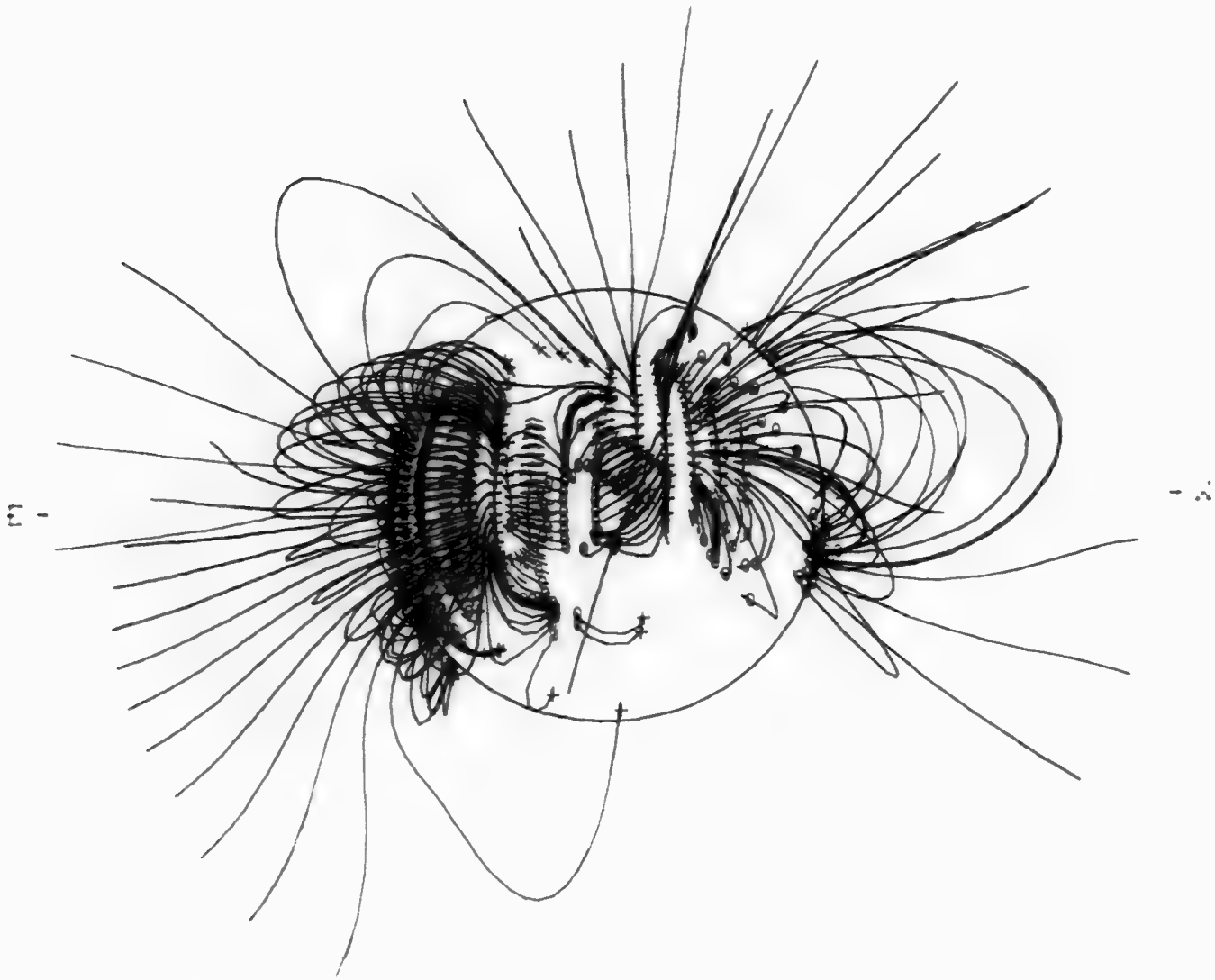
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



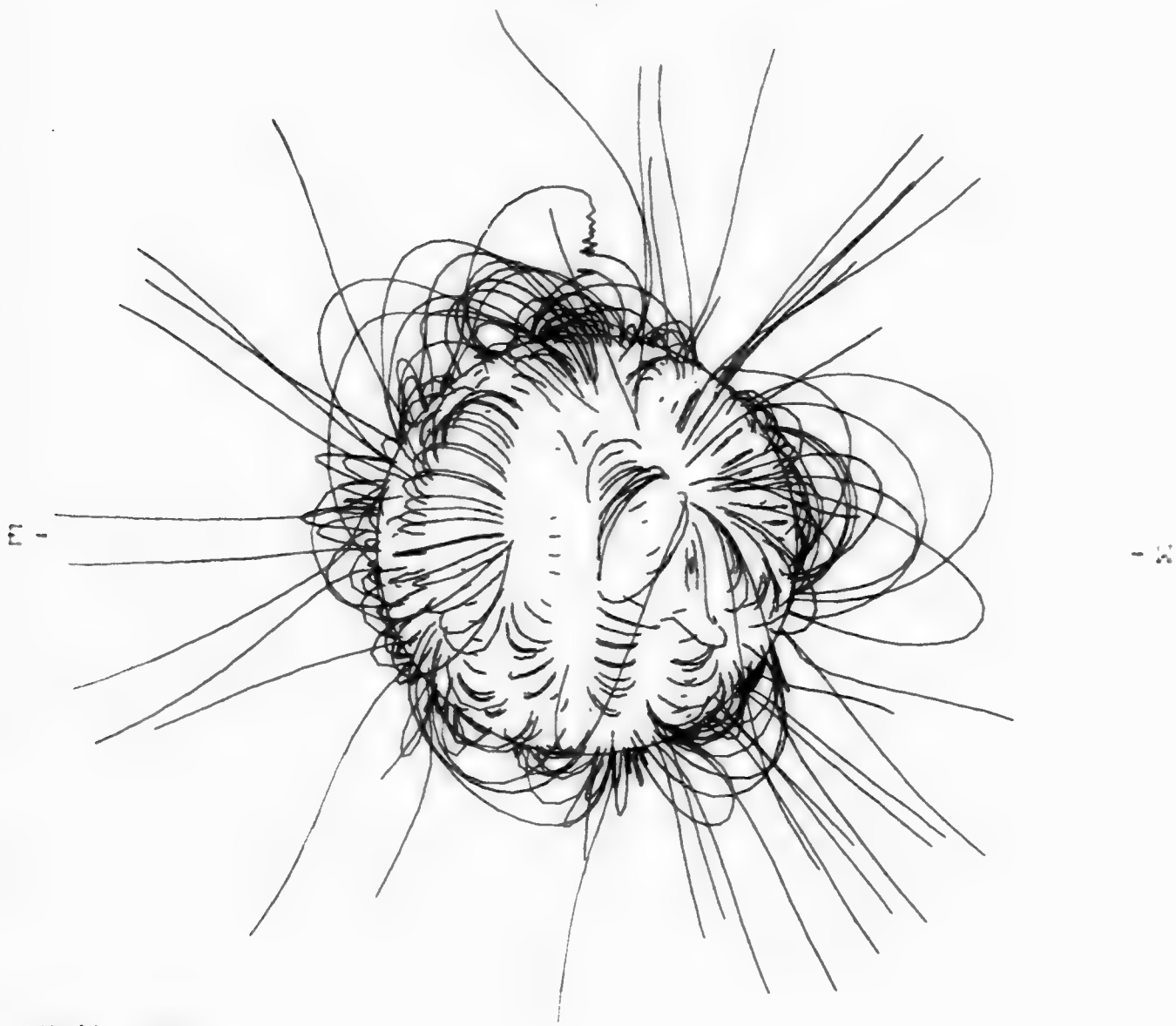
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



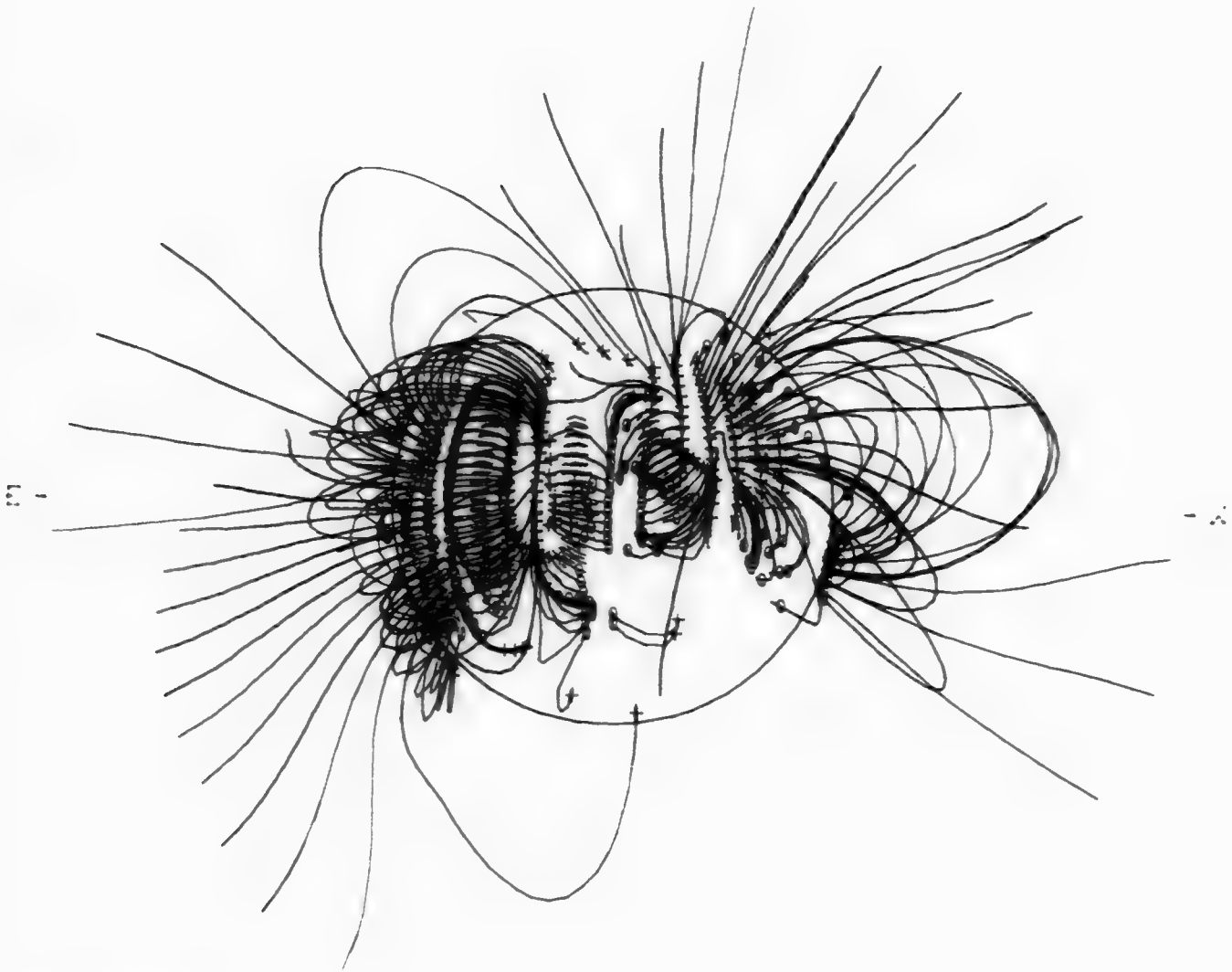
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



QUALITY FAIR

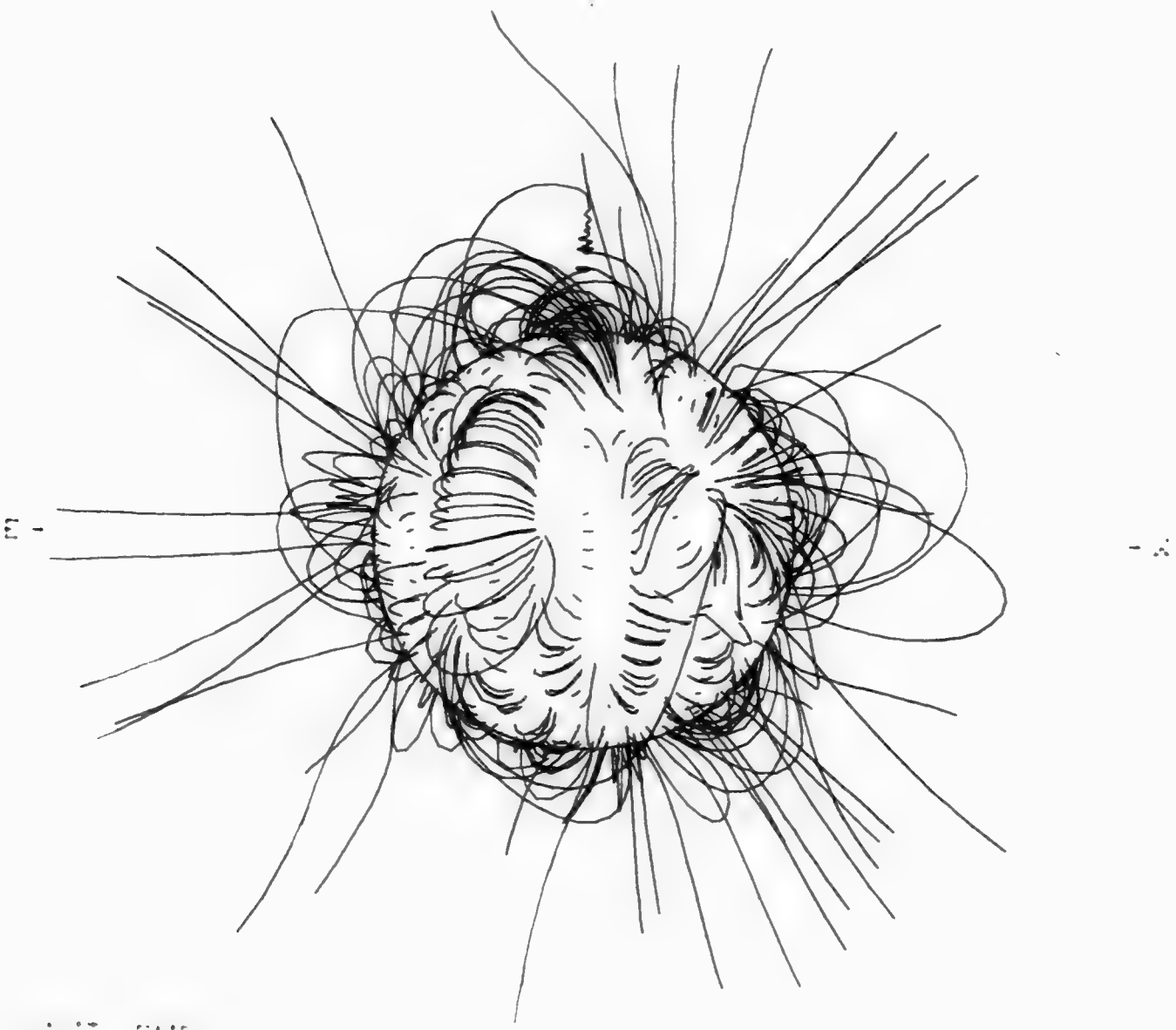
FLARE DIRECT

DATA [illegible] 1955.7

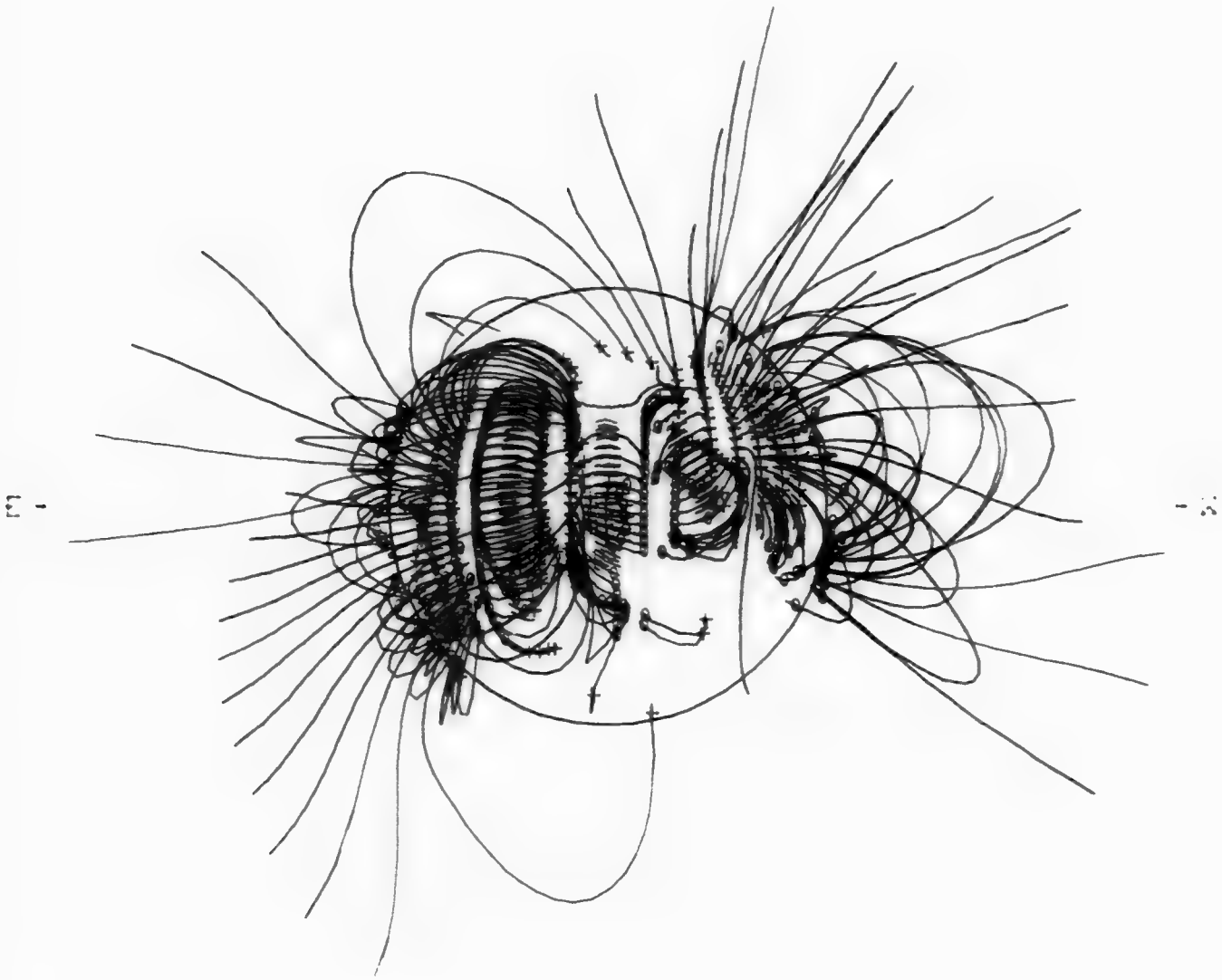
ROT. 1551 [illegible]°

[illegible]

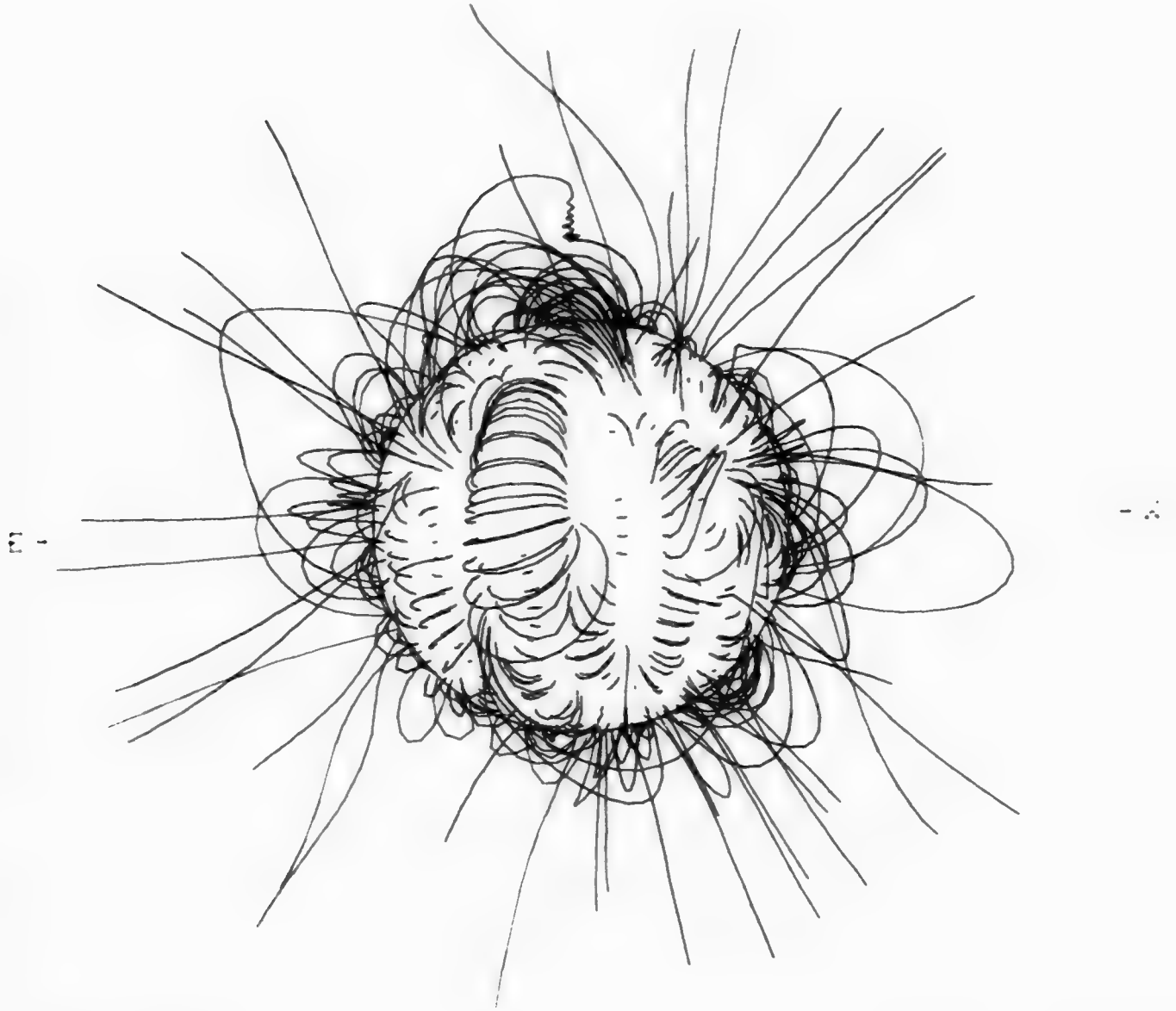
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



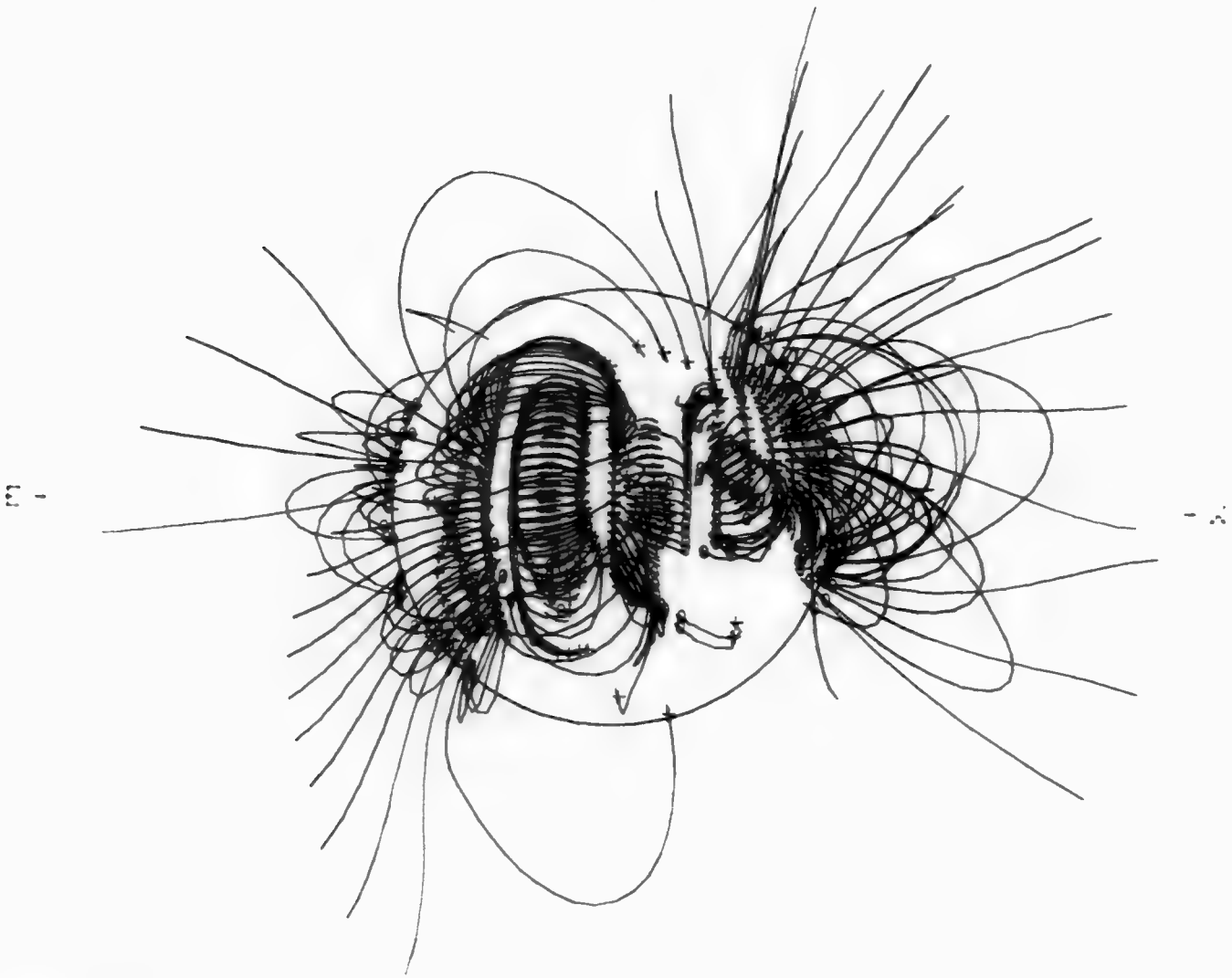
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

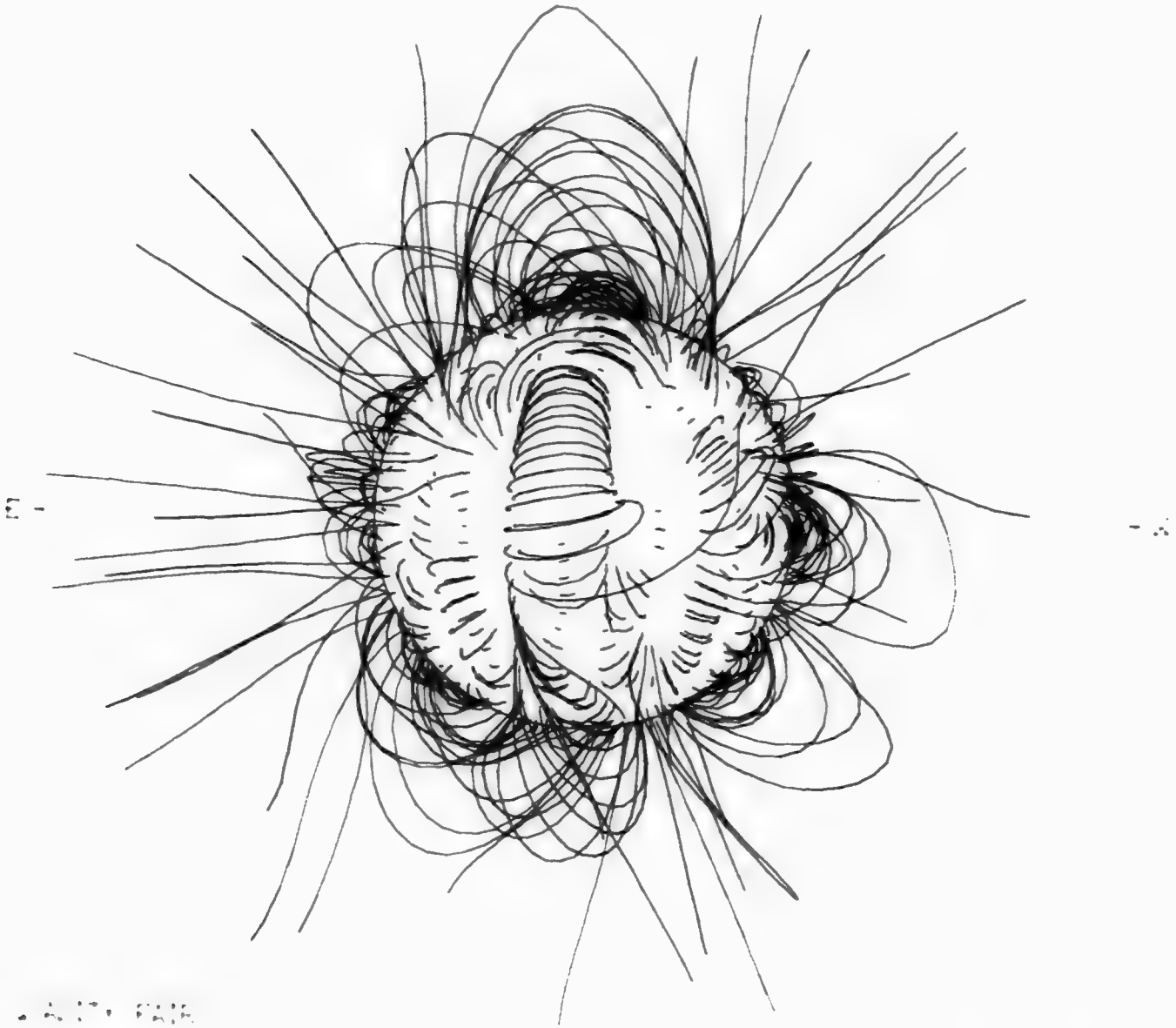


QUALITY FAIR

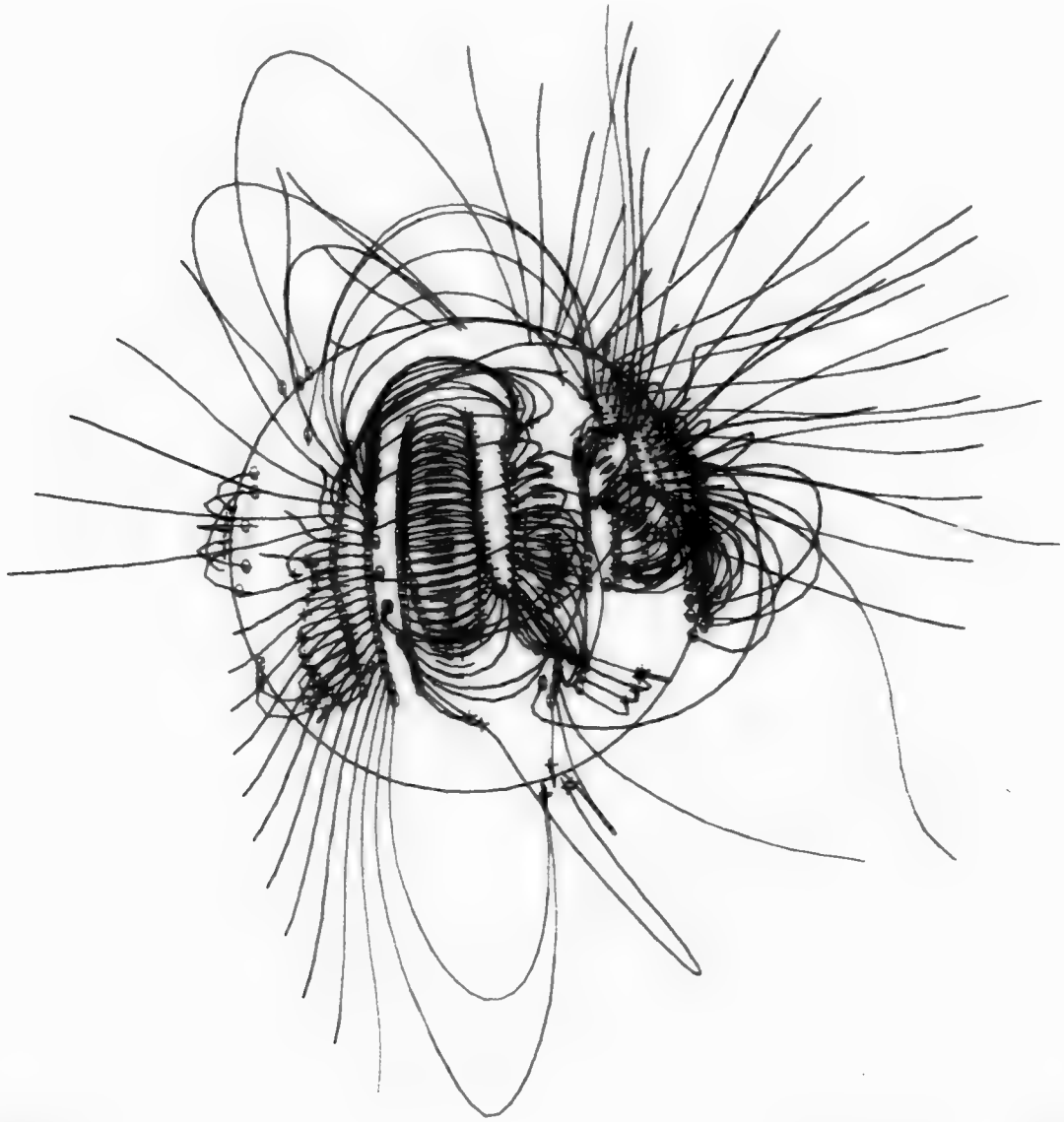
POLES DIRECT

DATA WINDOW 1551.19

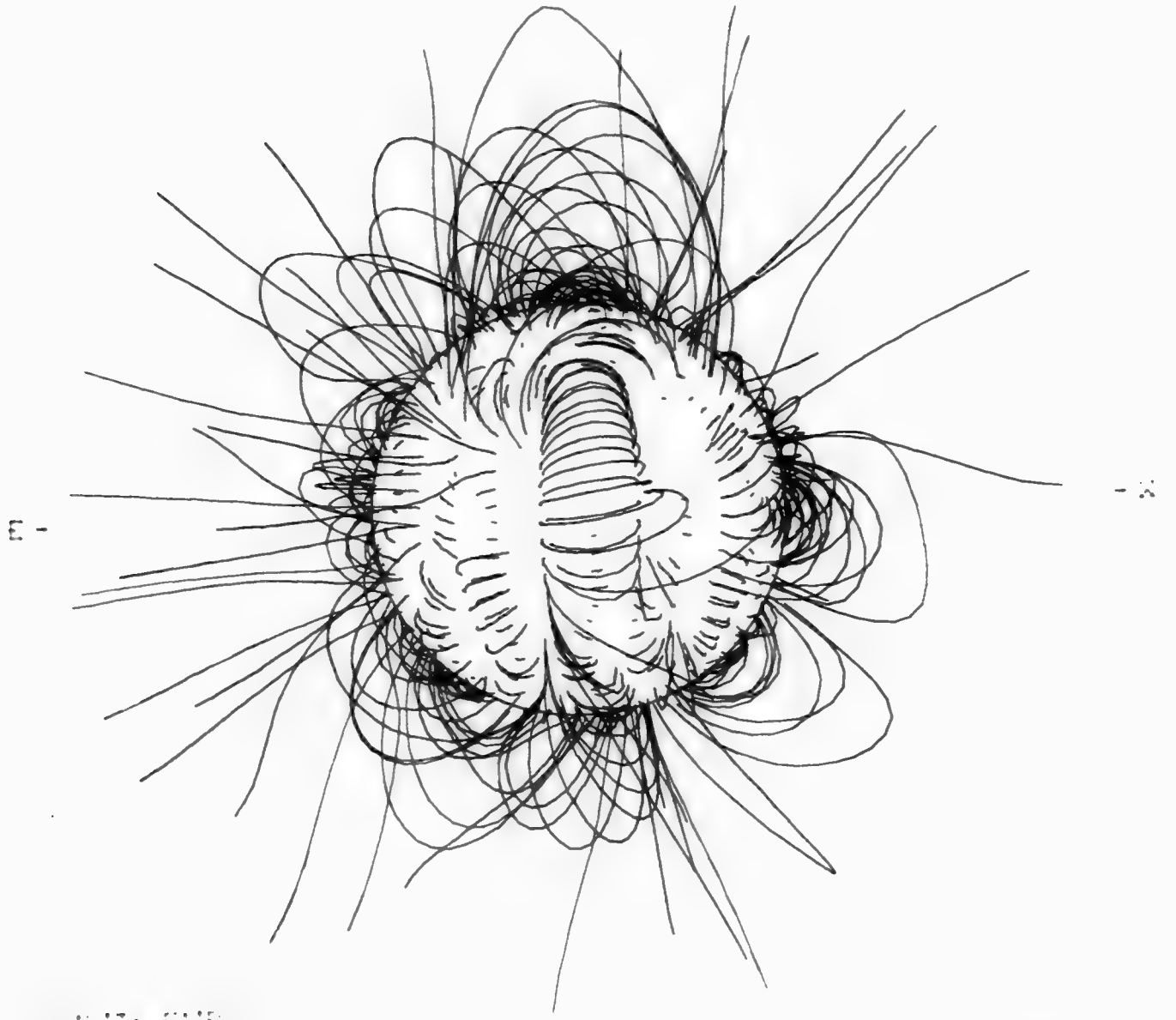
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N

E -

- W

S

QUALITY FAIR

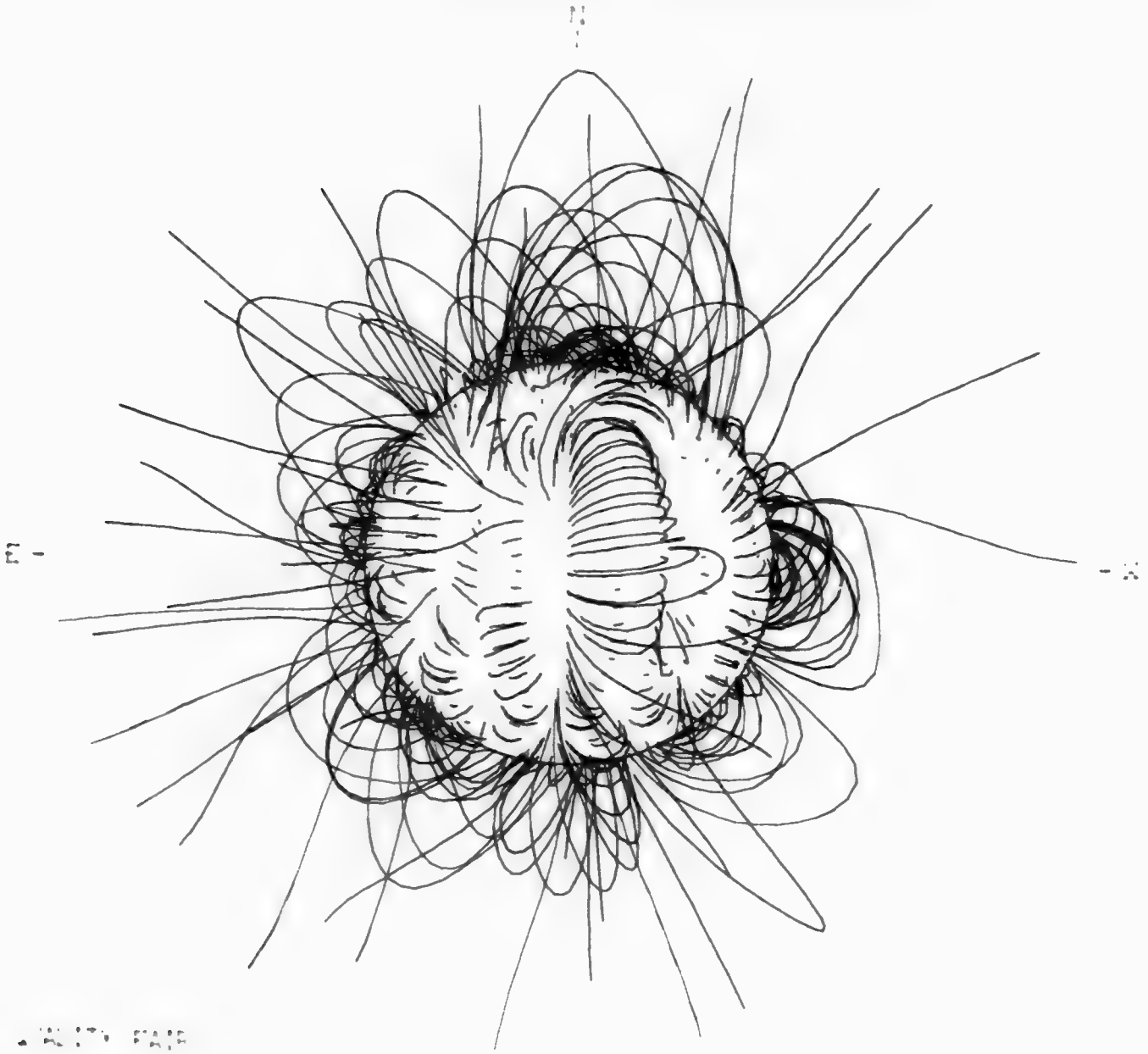
POLES DIRECT

DATA WINDOW 1551.4"

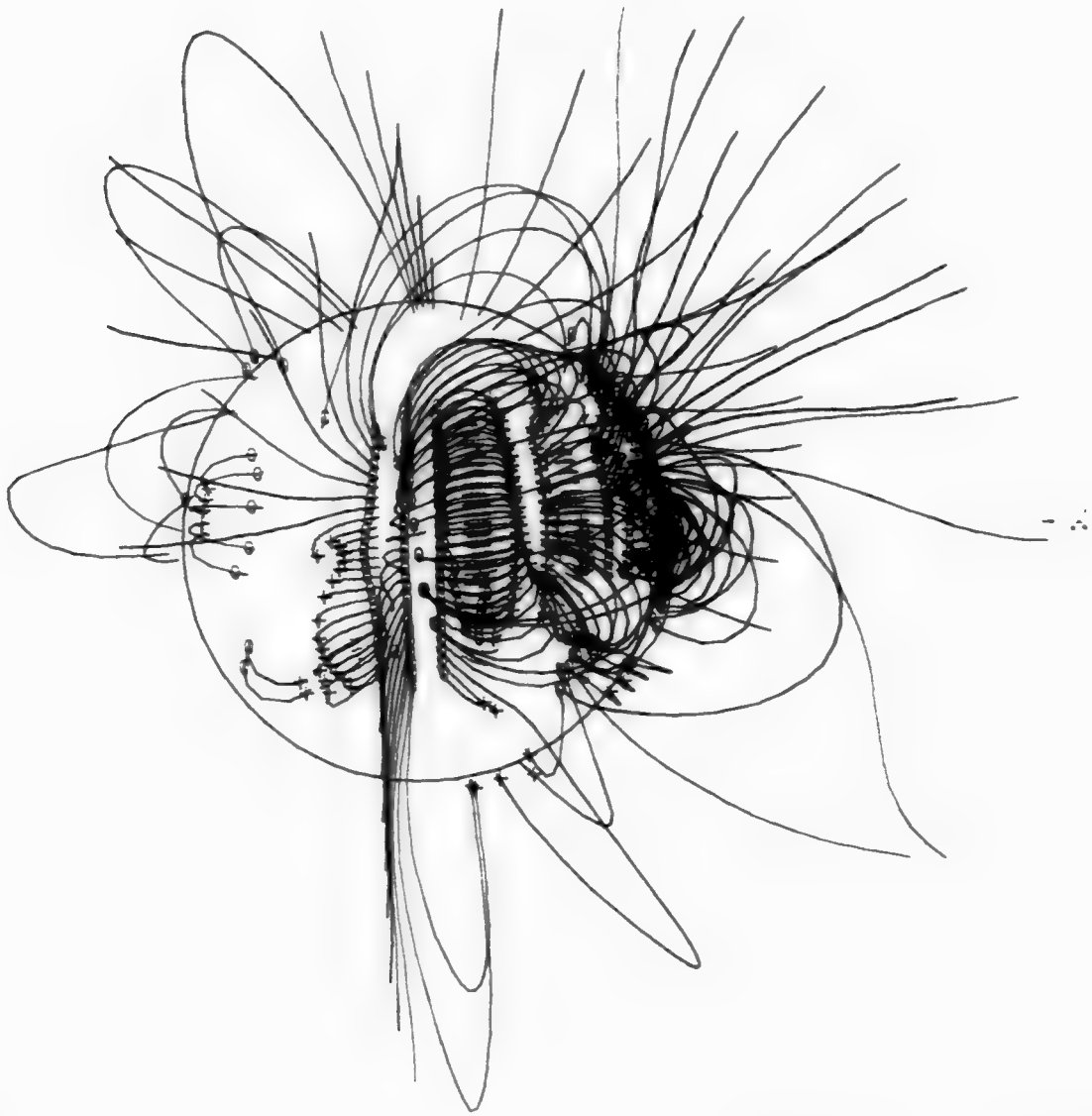
R.T. 1551 L=13. 7°

4 SEP 1964

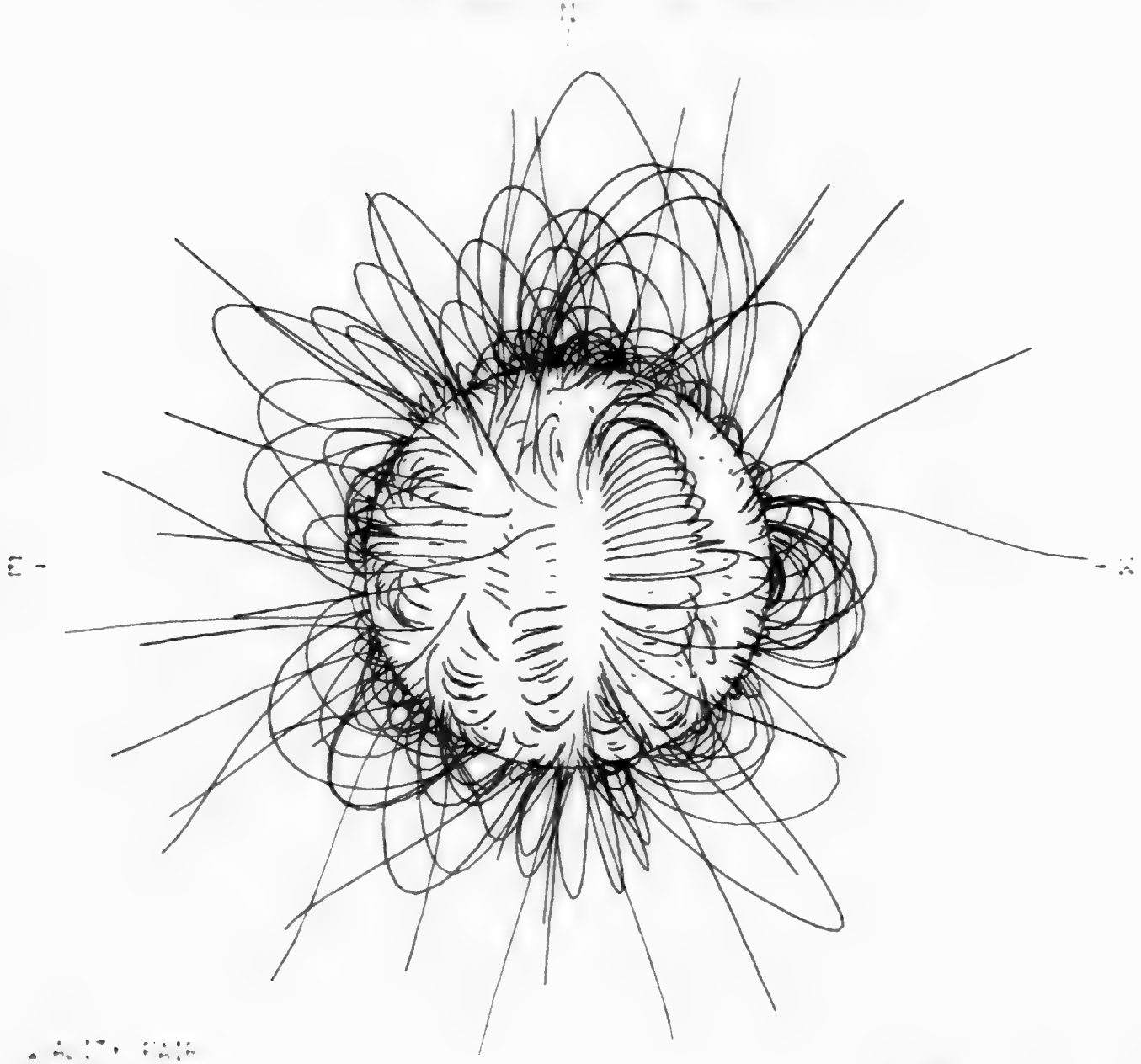
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



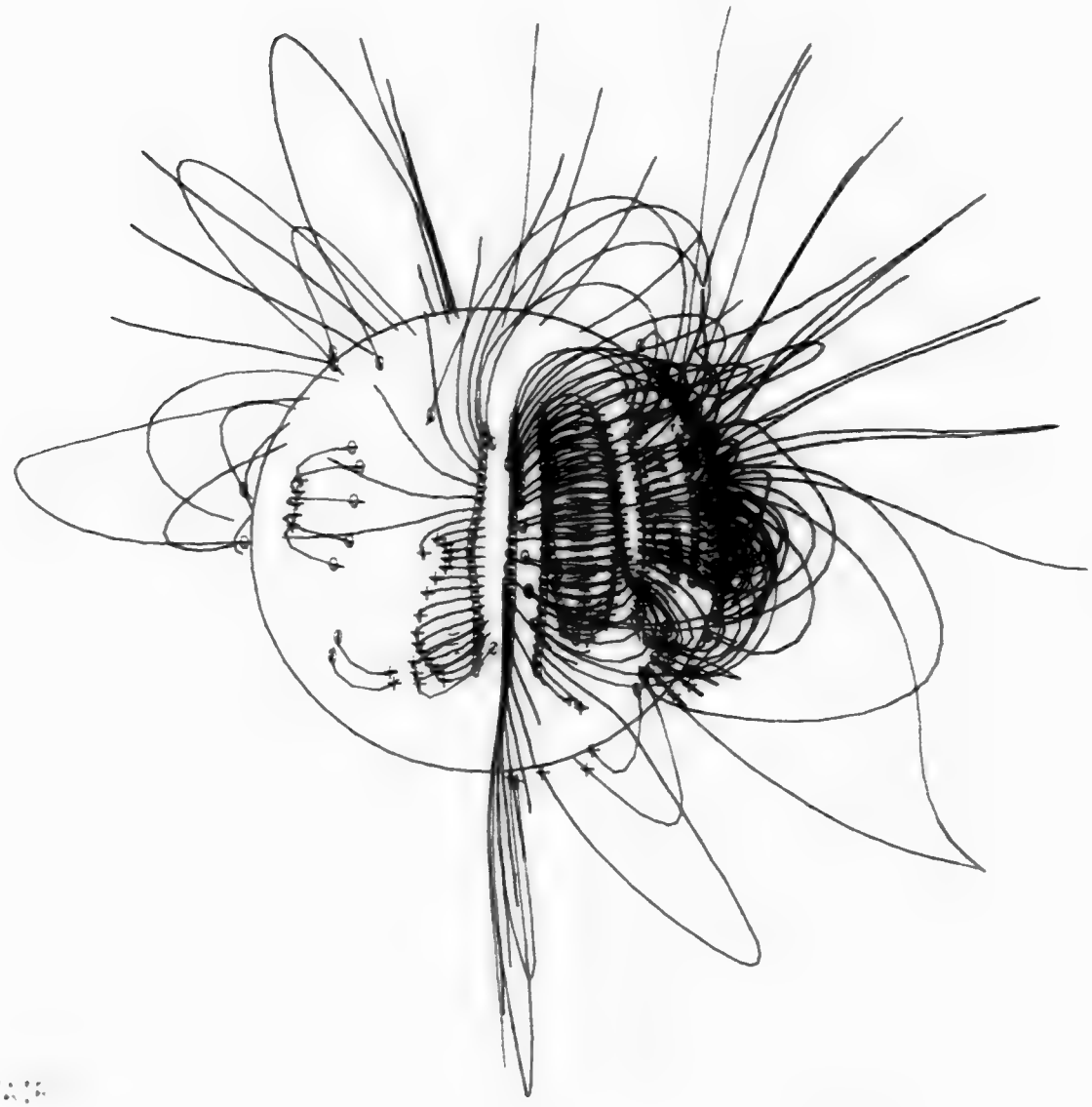
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

QUALITY FAIR

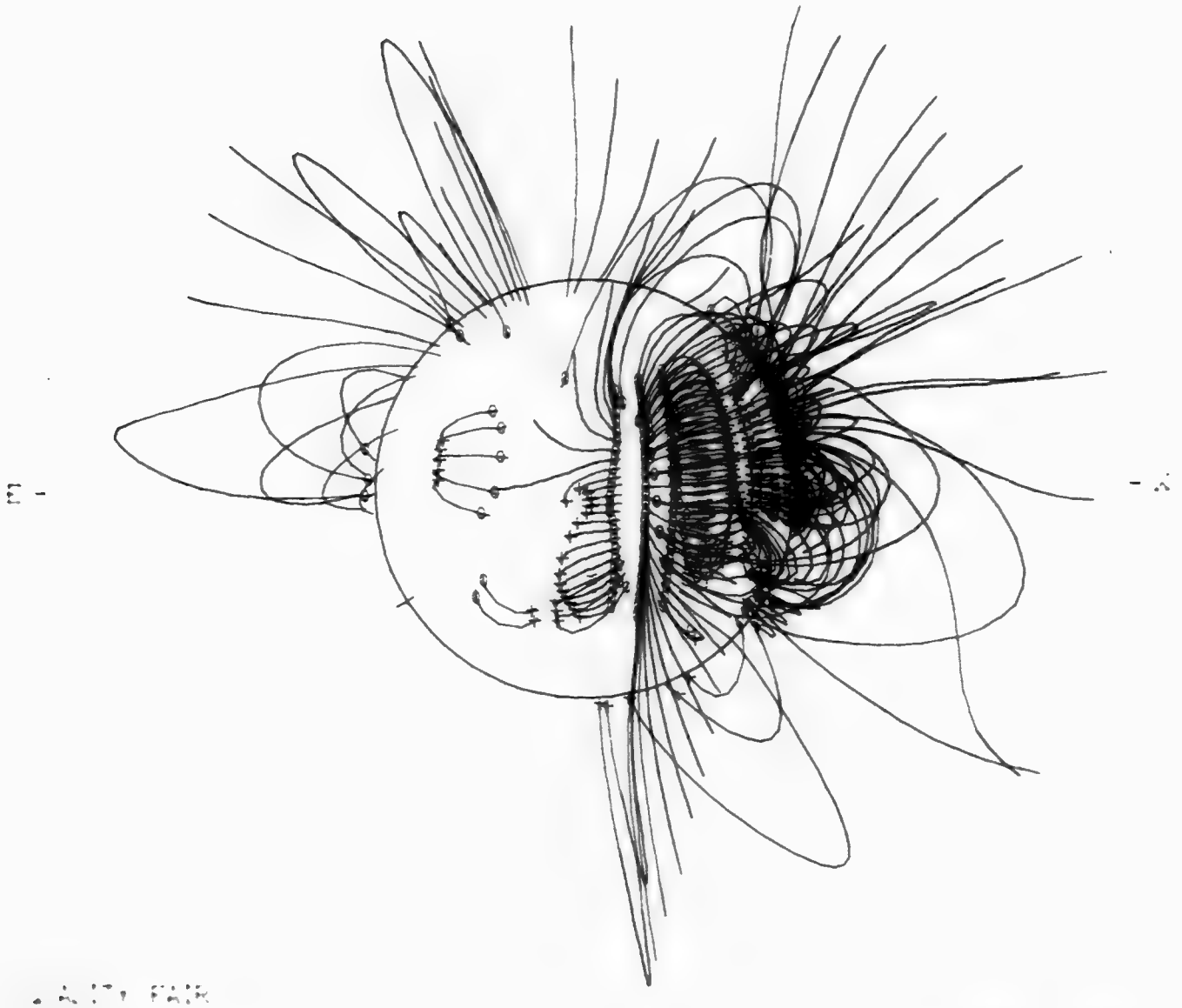
RULES DIRECT

DATA AVAILABLE [illegible]

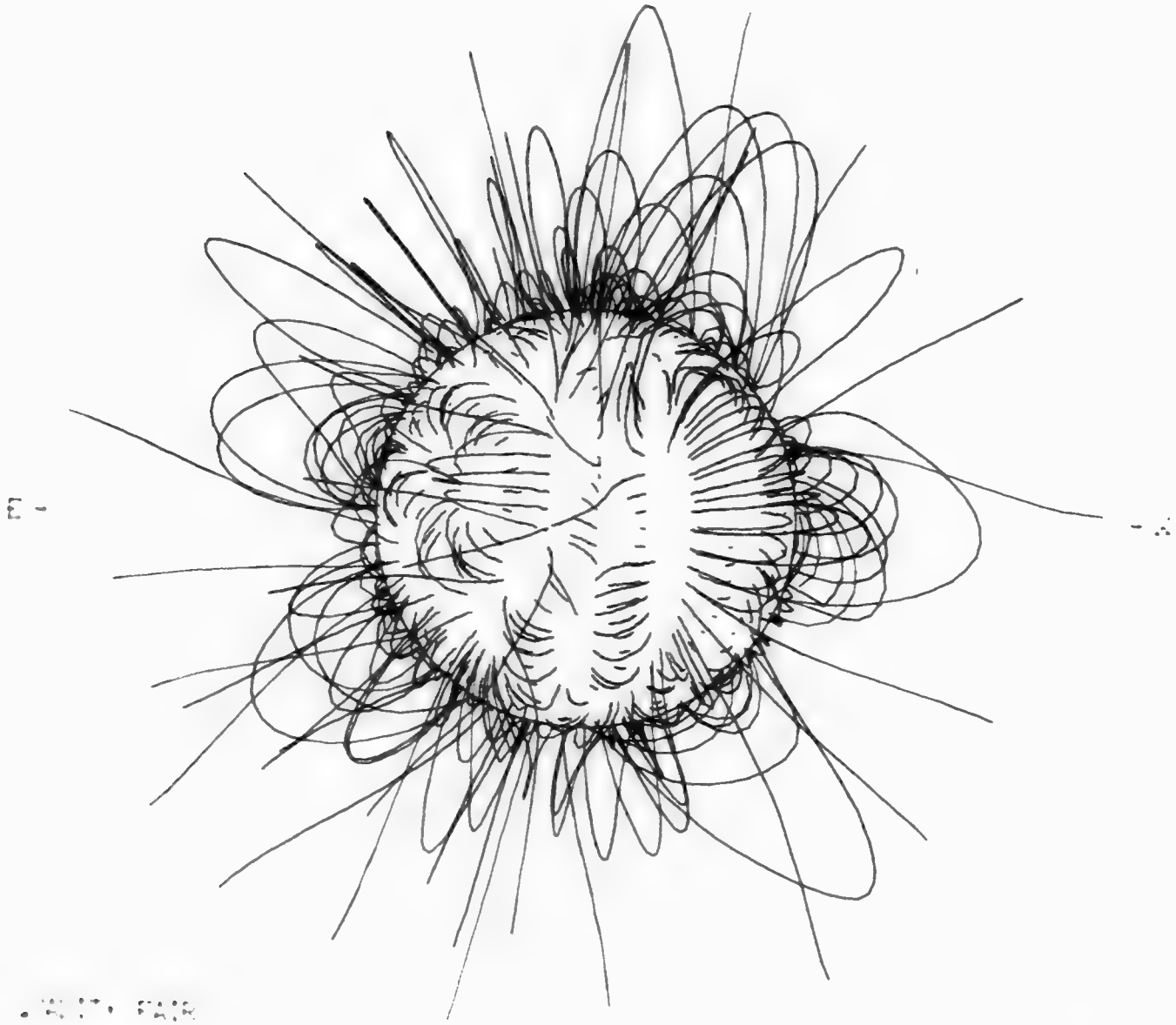
ROT. 1551 LONG. 41°

5-7 SEP 1964

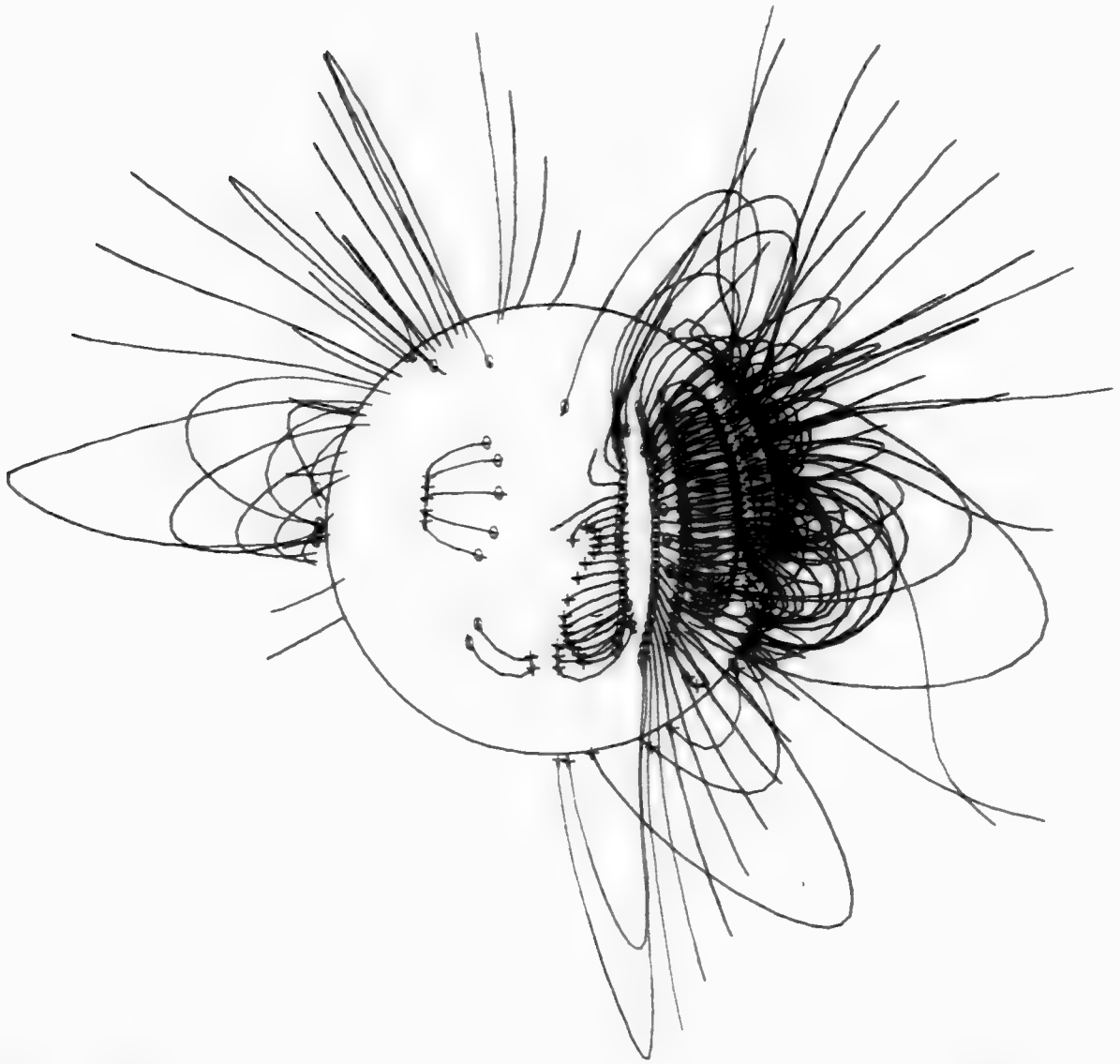
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



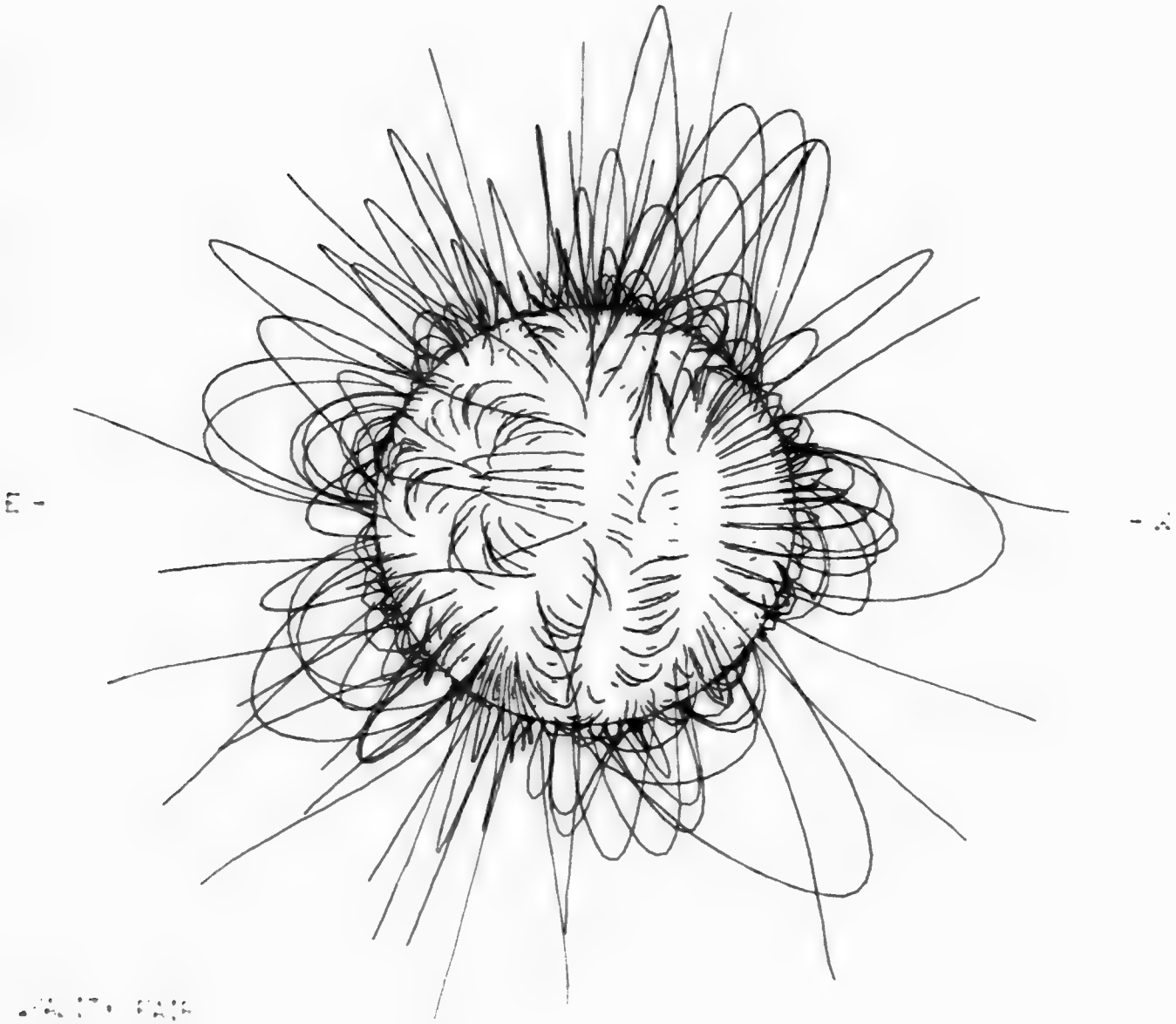
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



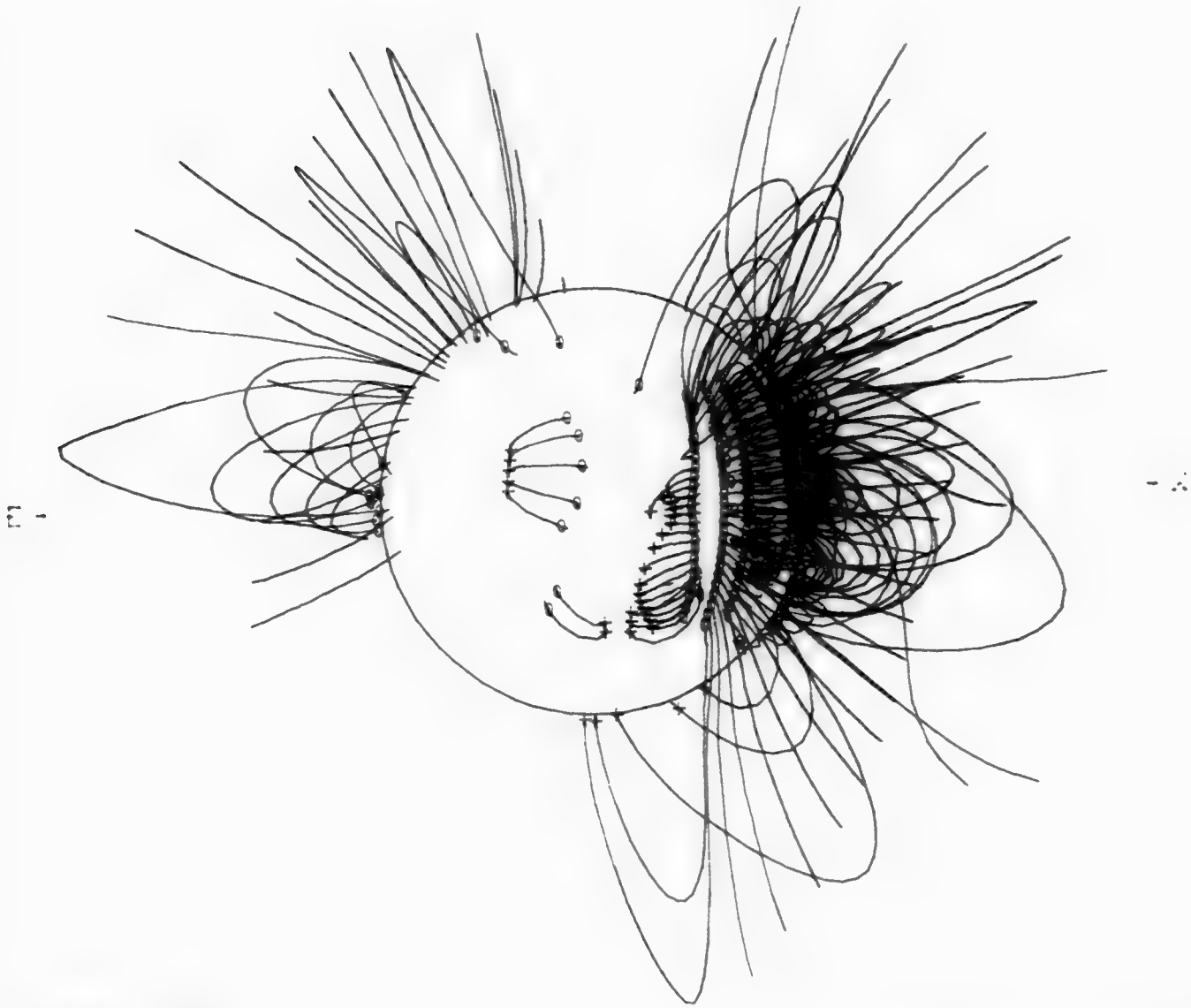
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



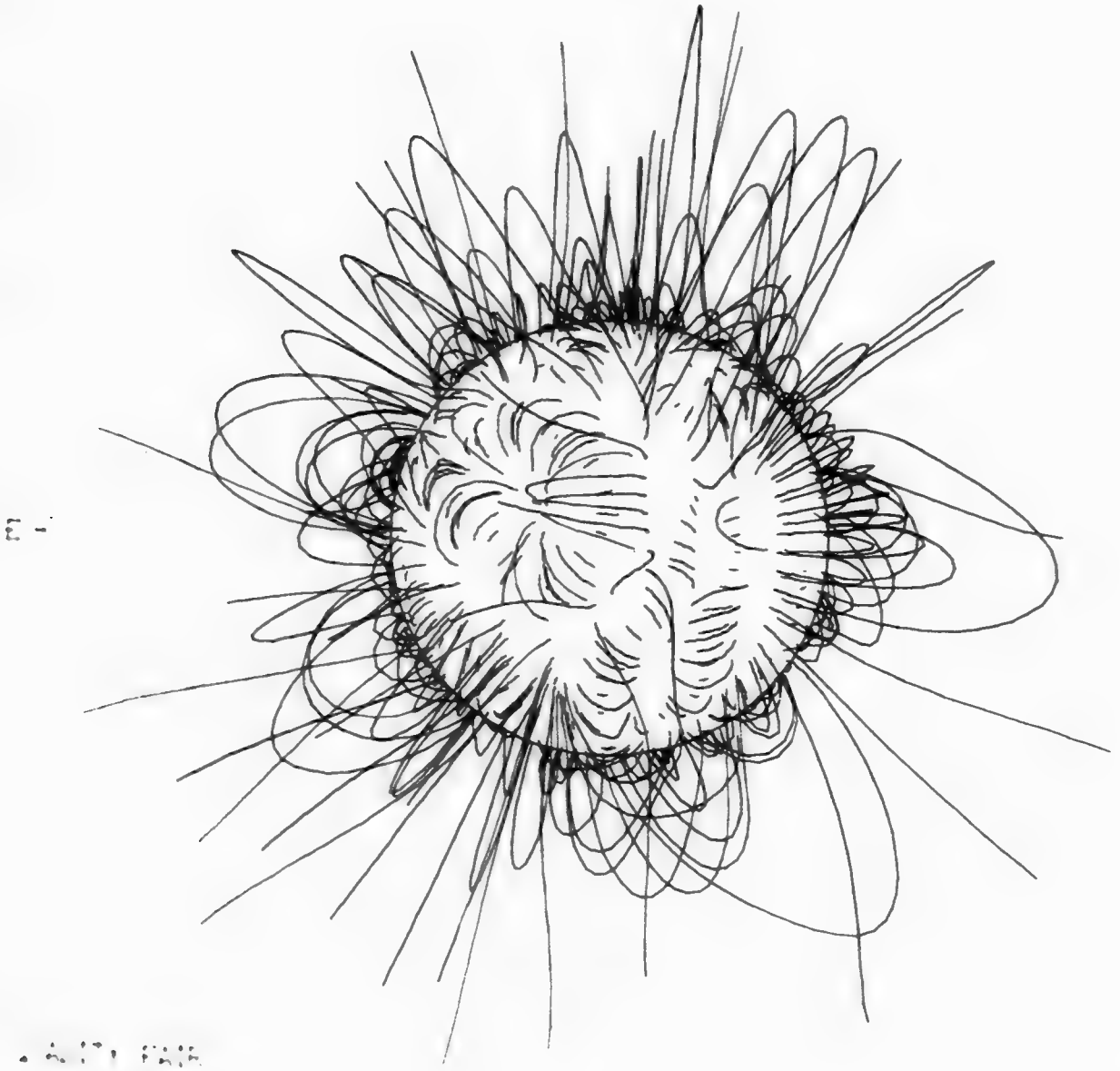
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



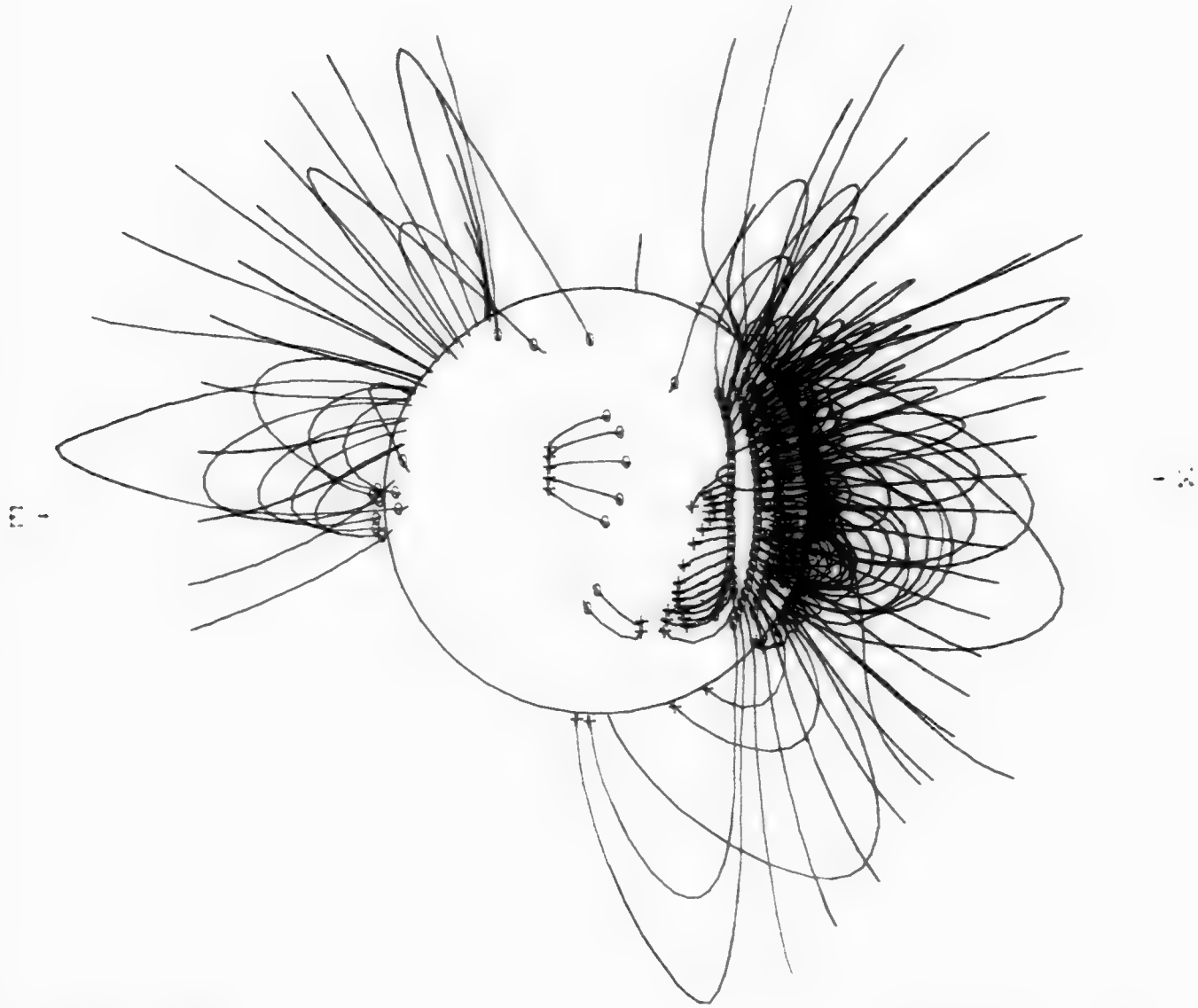
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



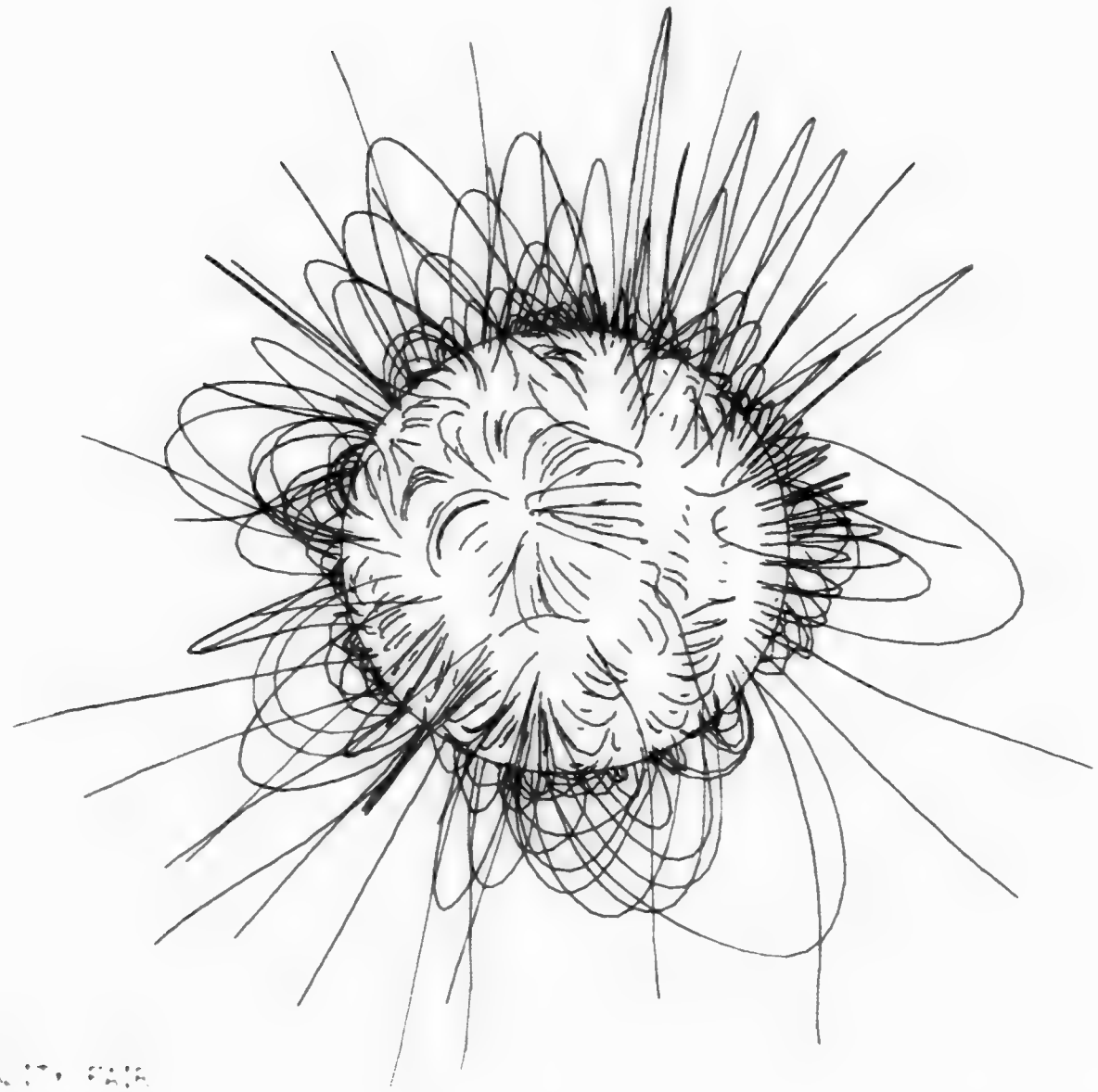
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



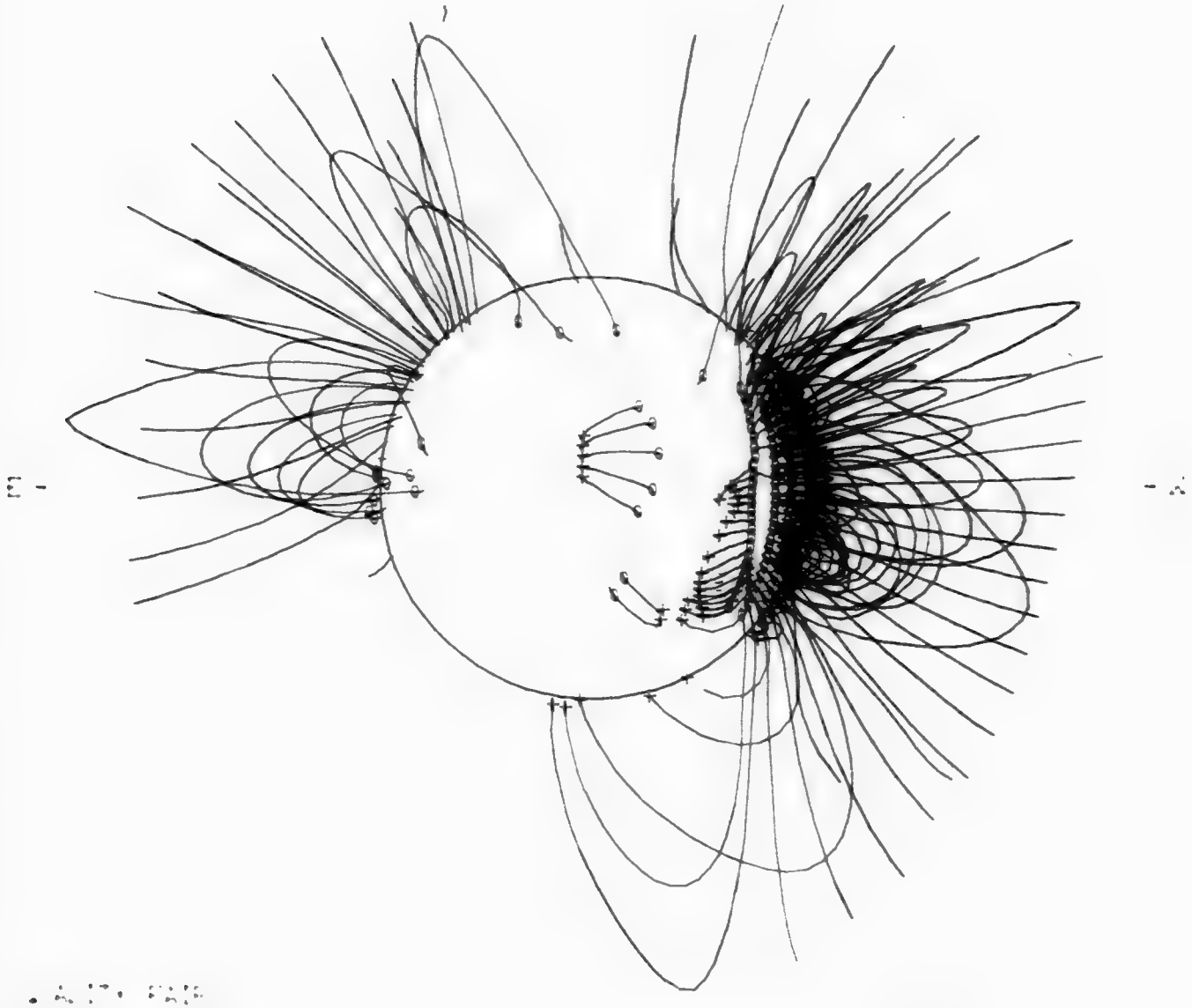
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



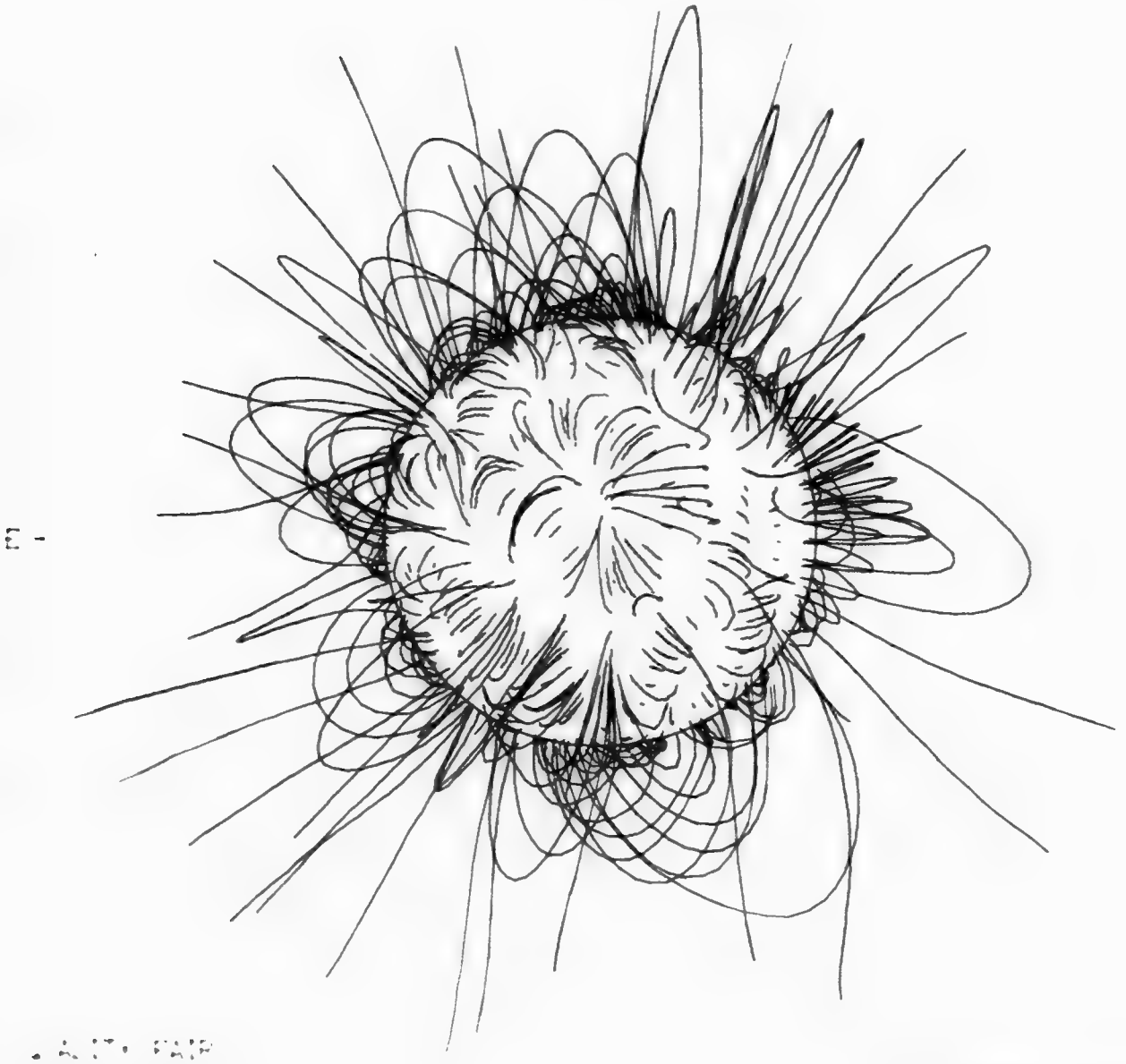
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



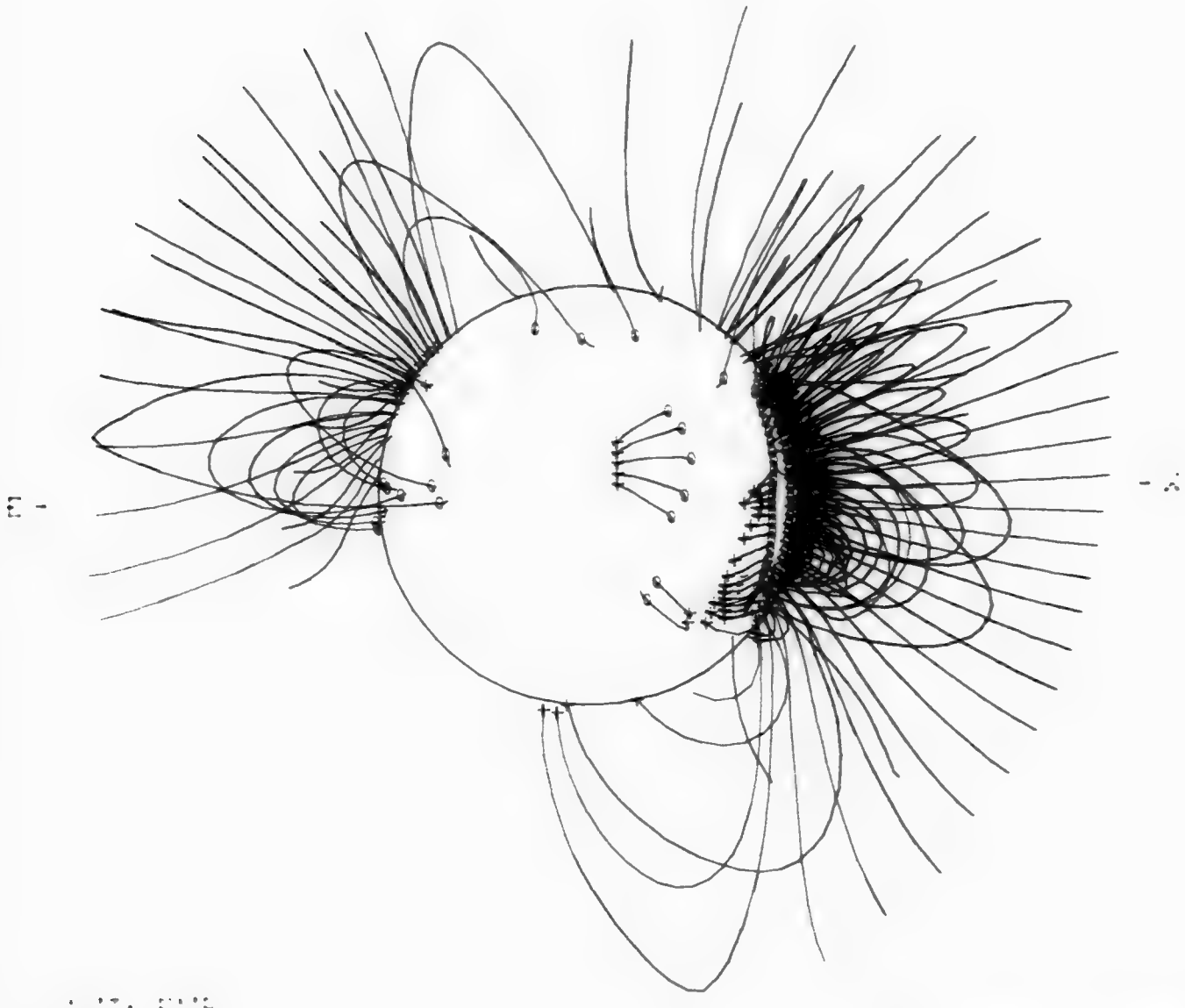
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



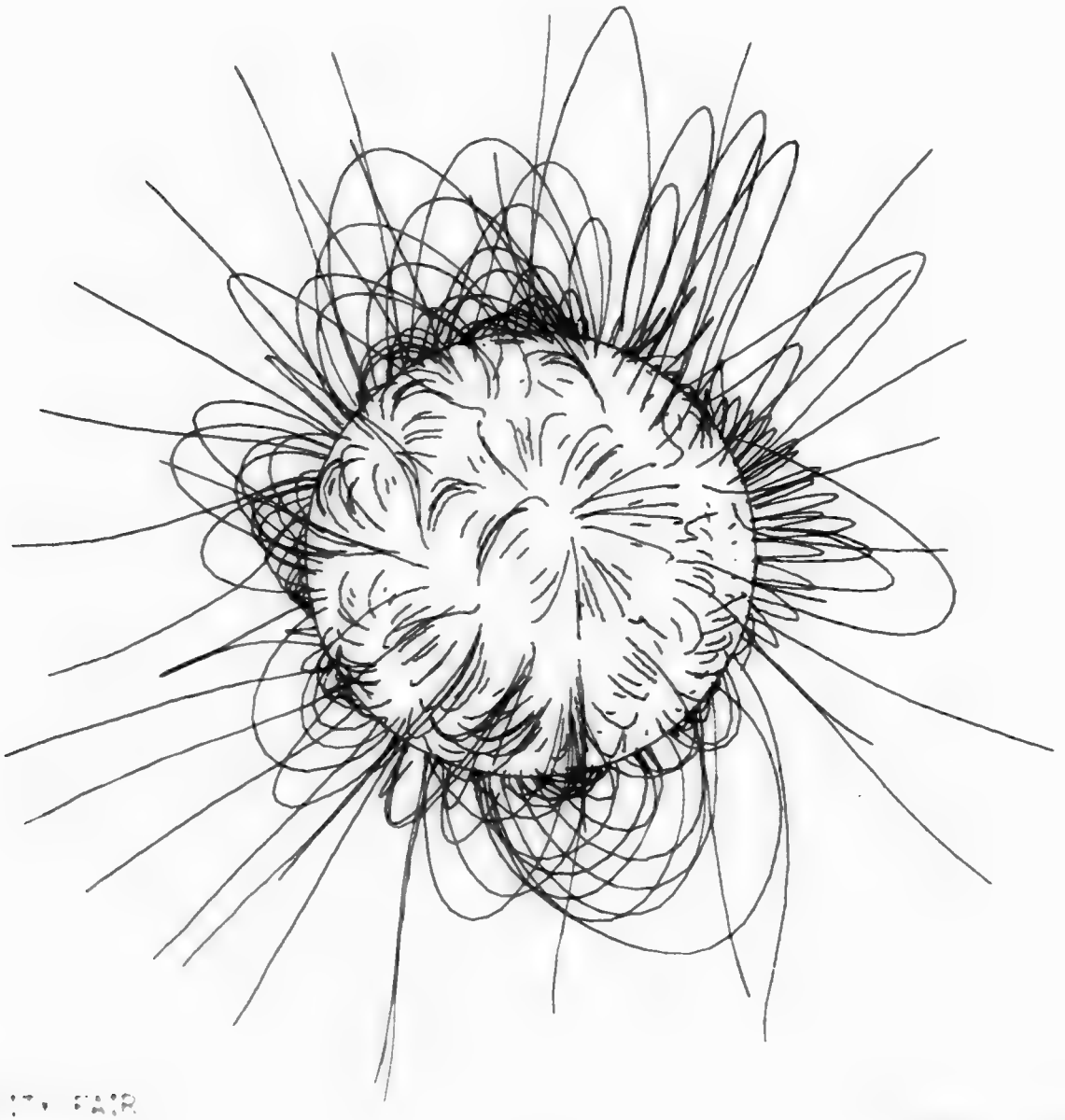
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



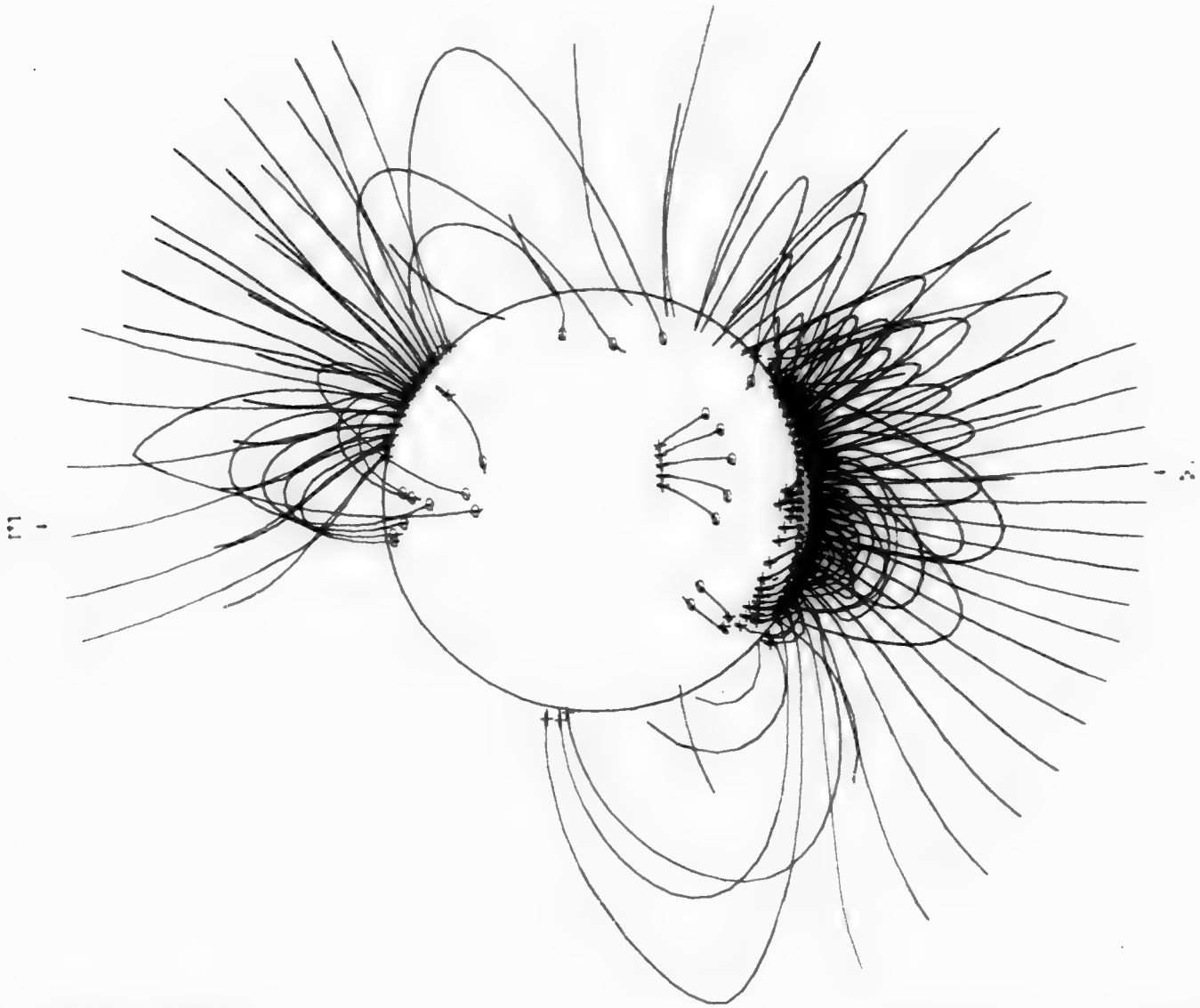
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



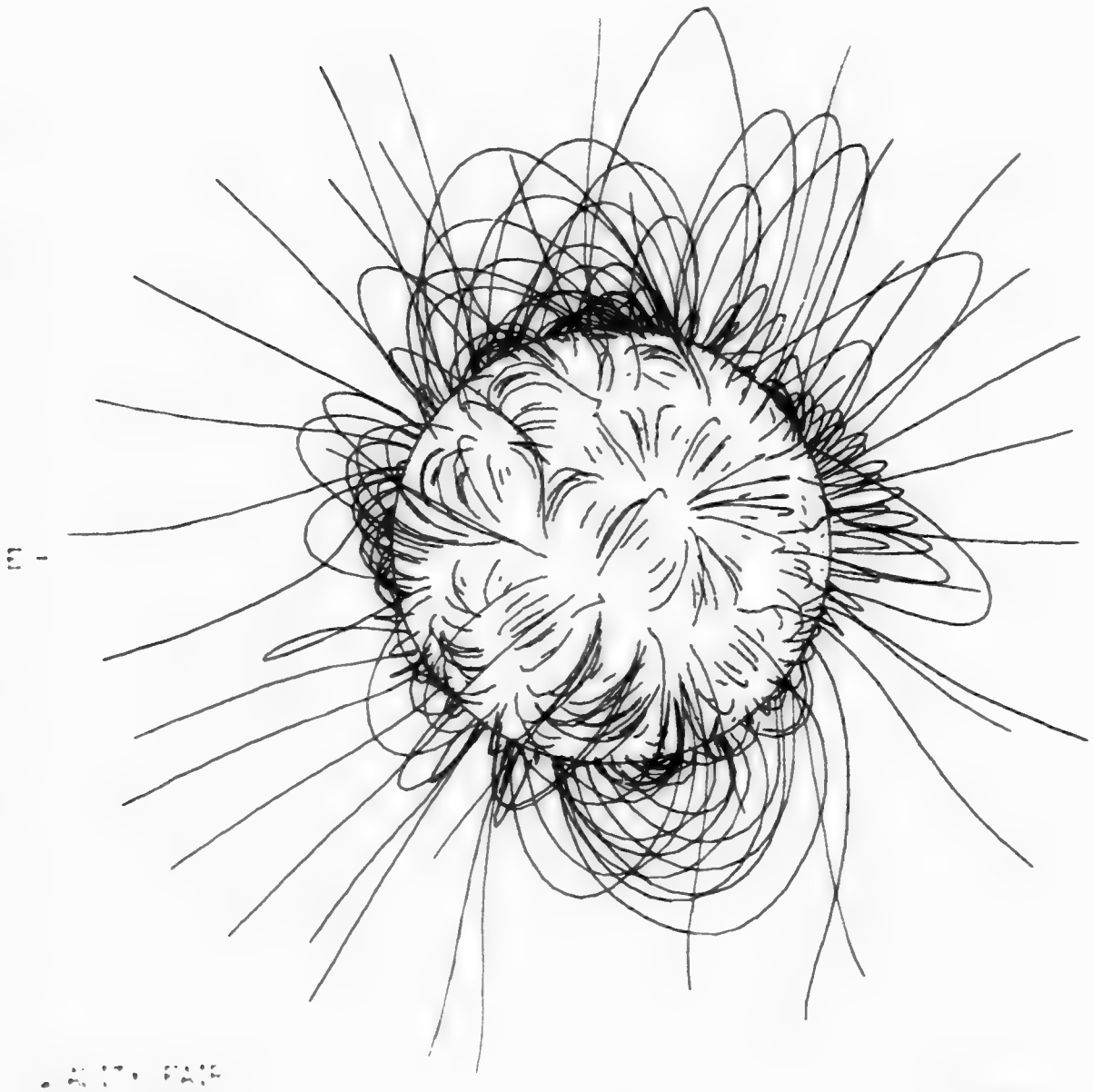
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



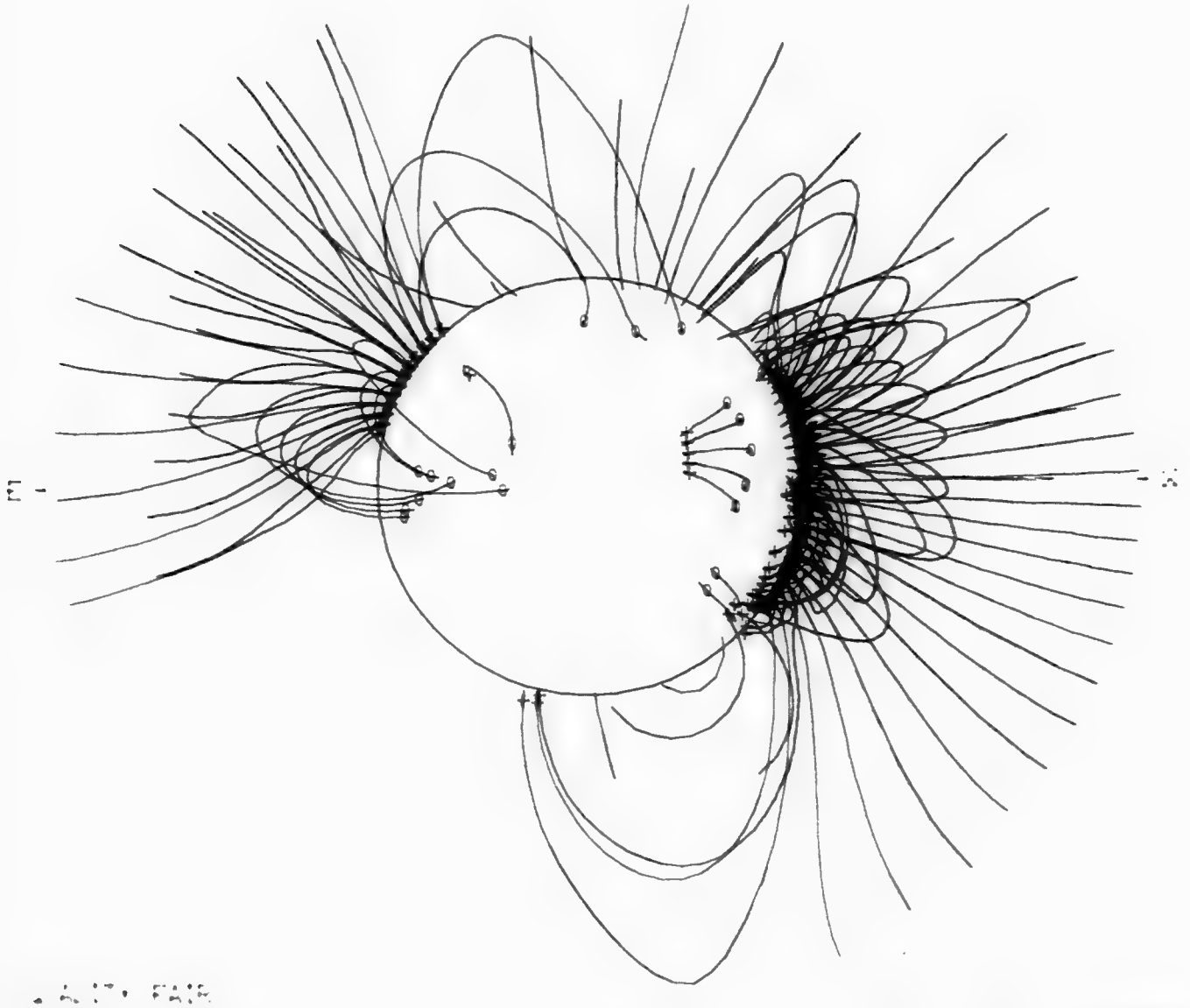
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



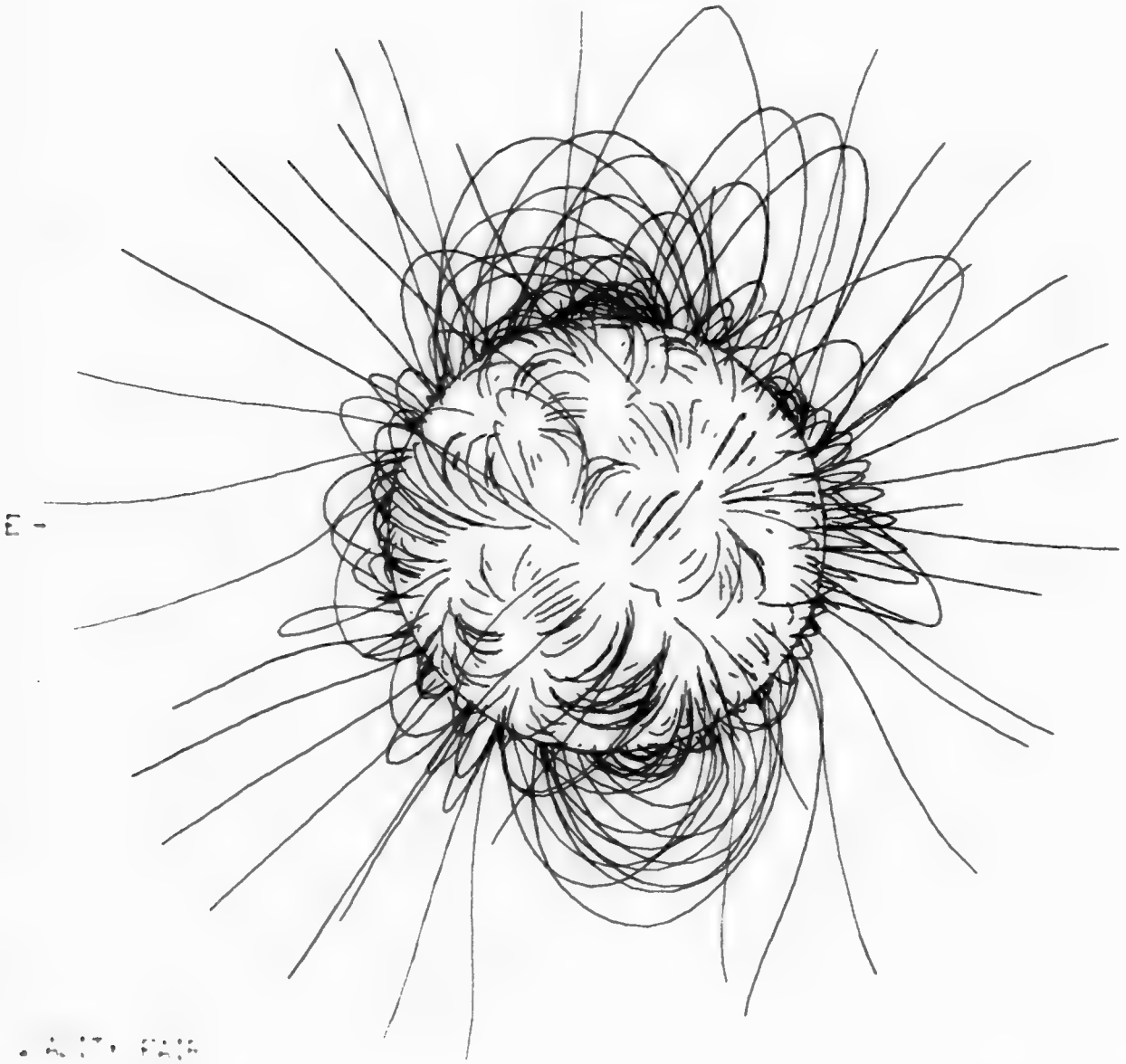
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



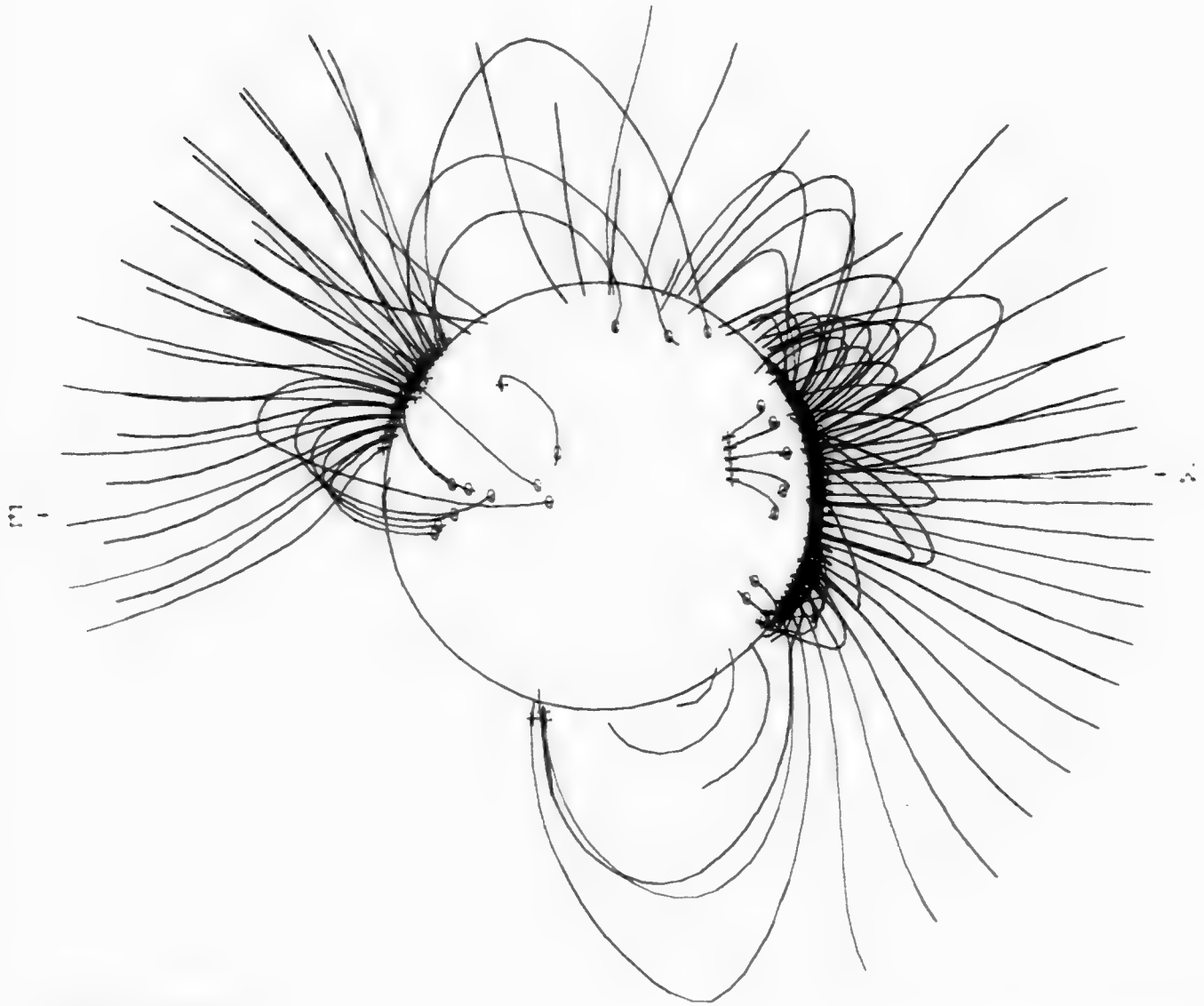
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



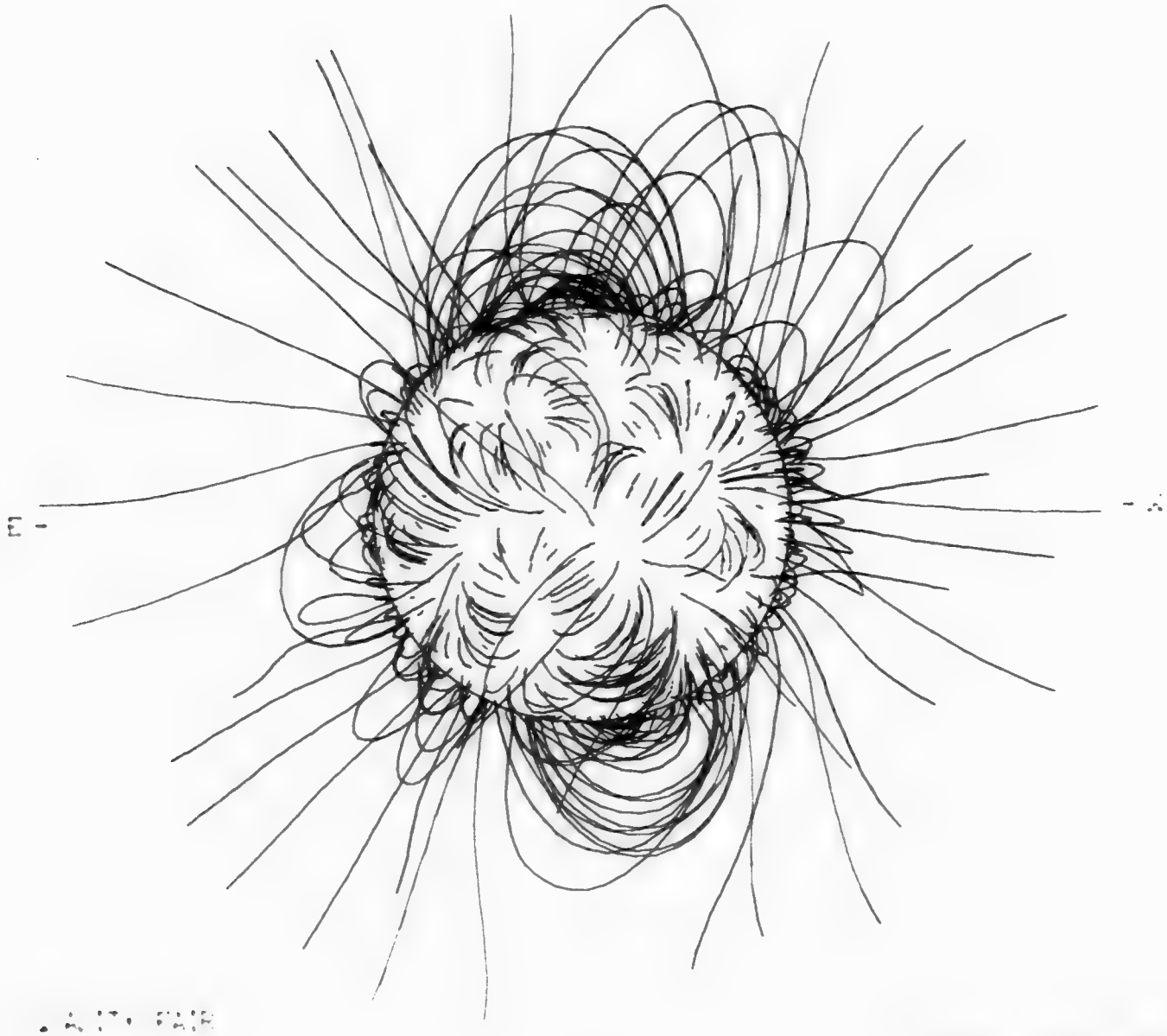
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



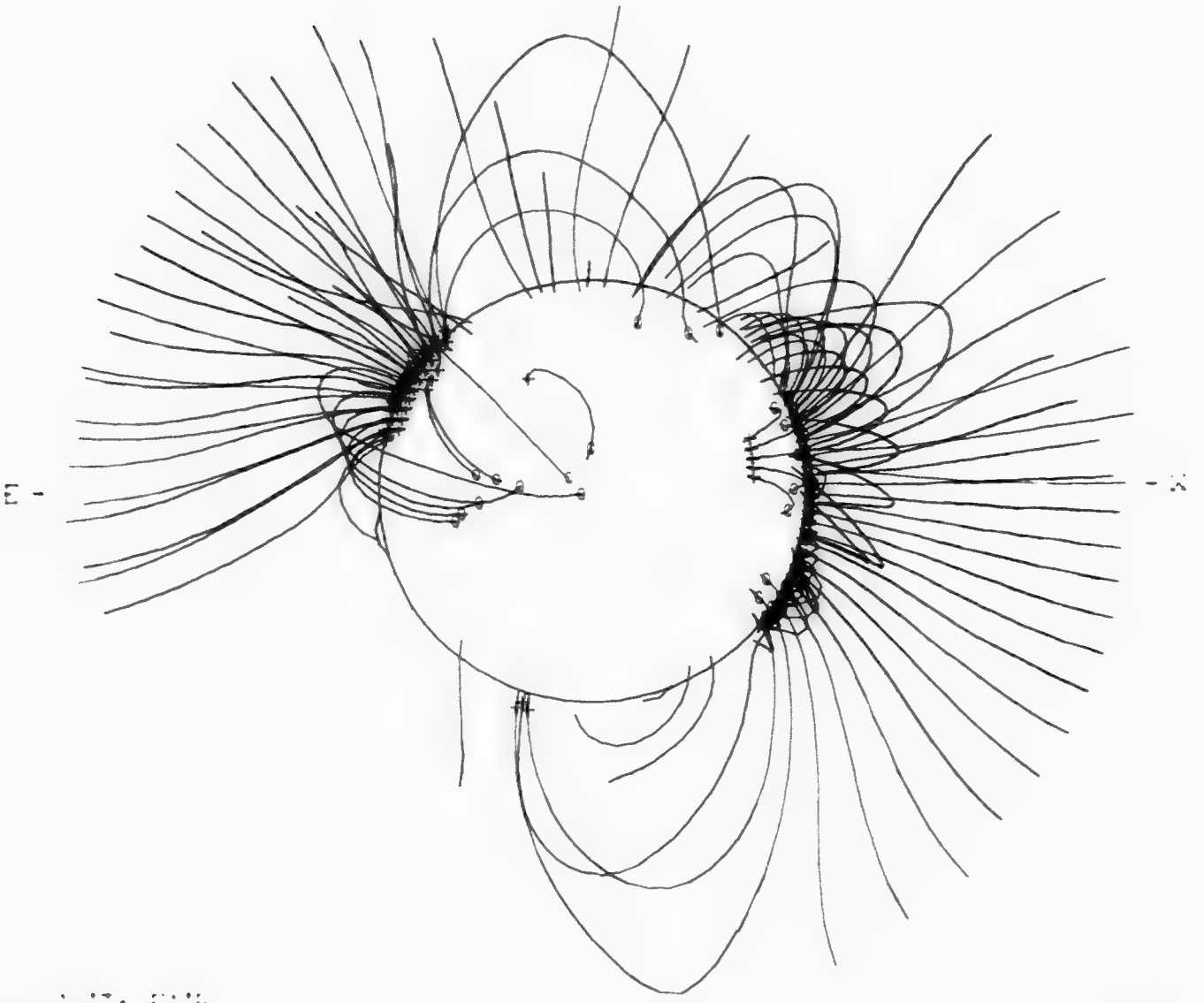
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



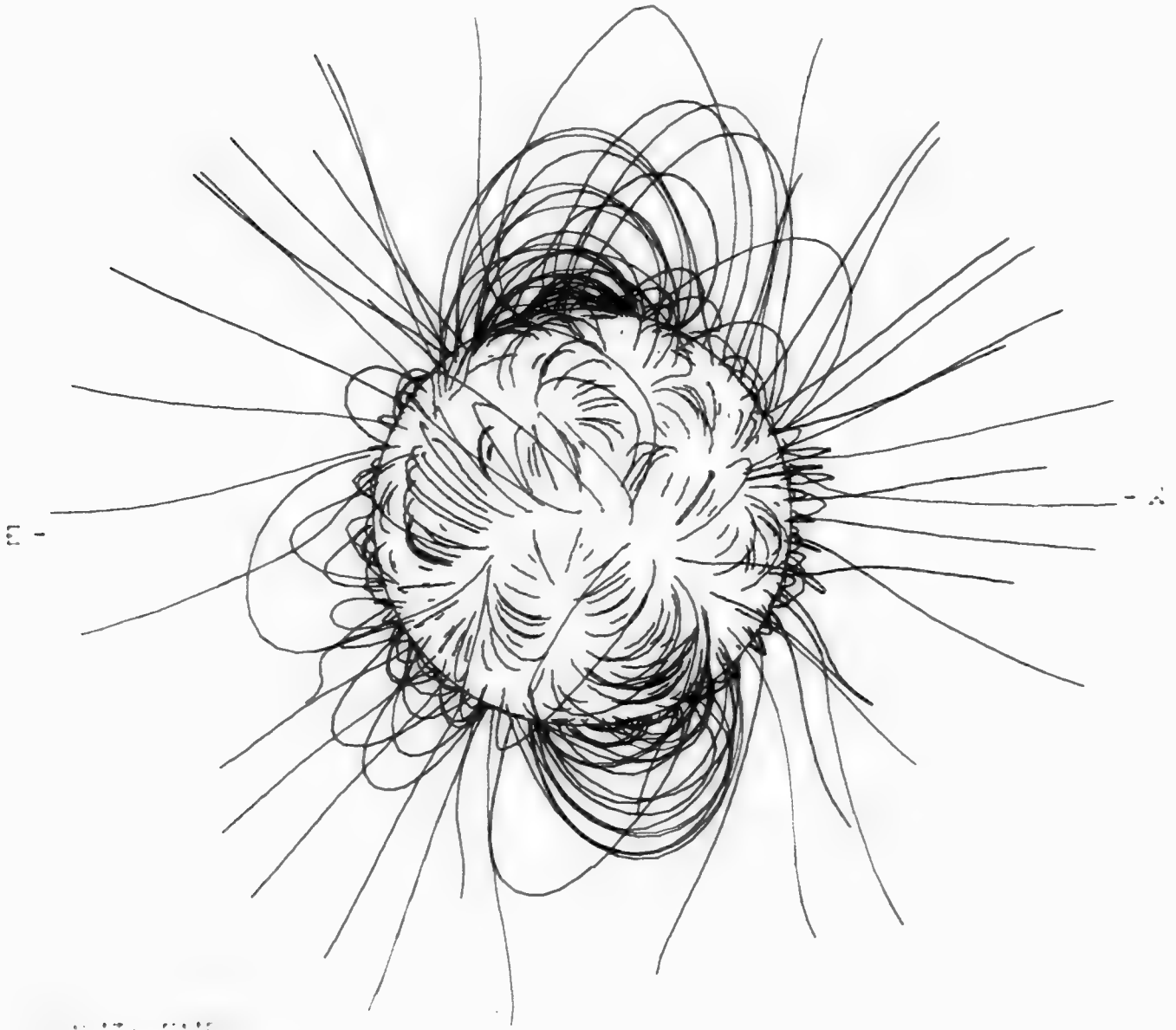
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



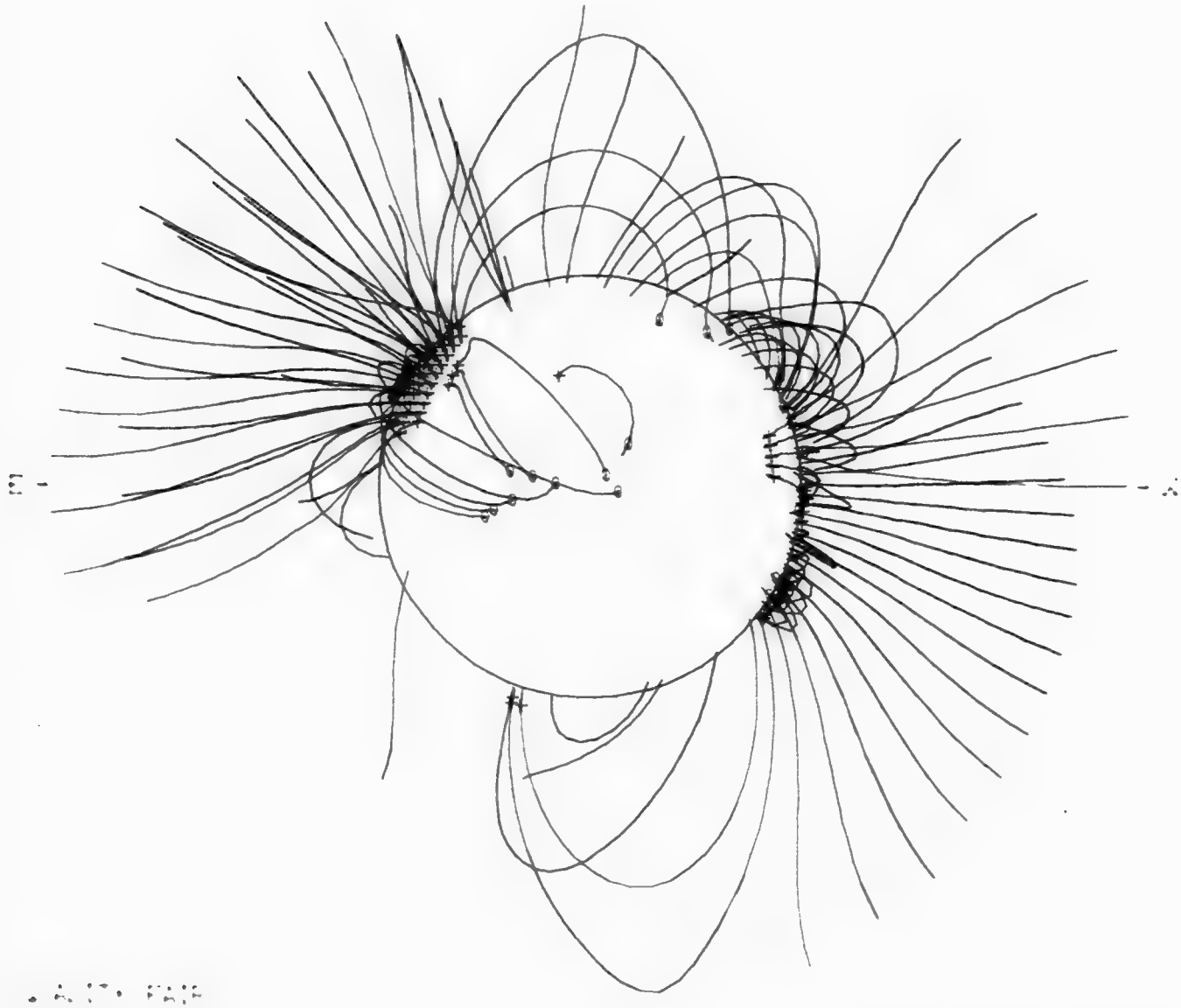
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



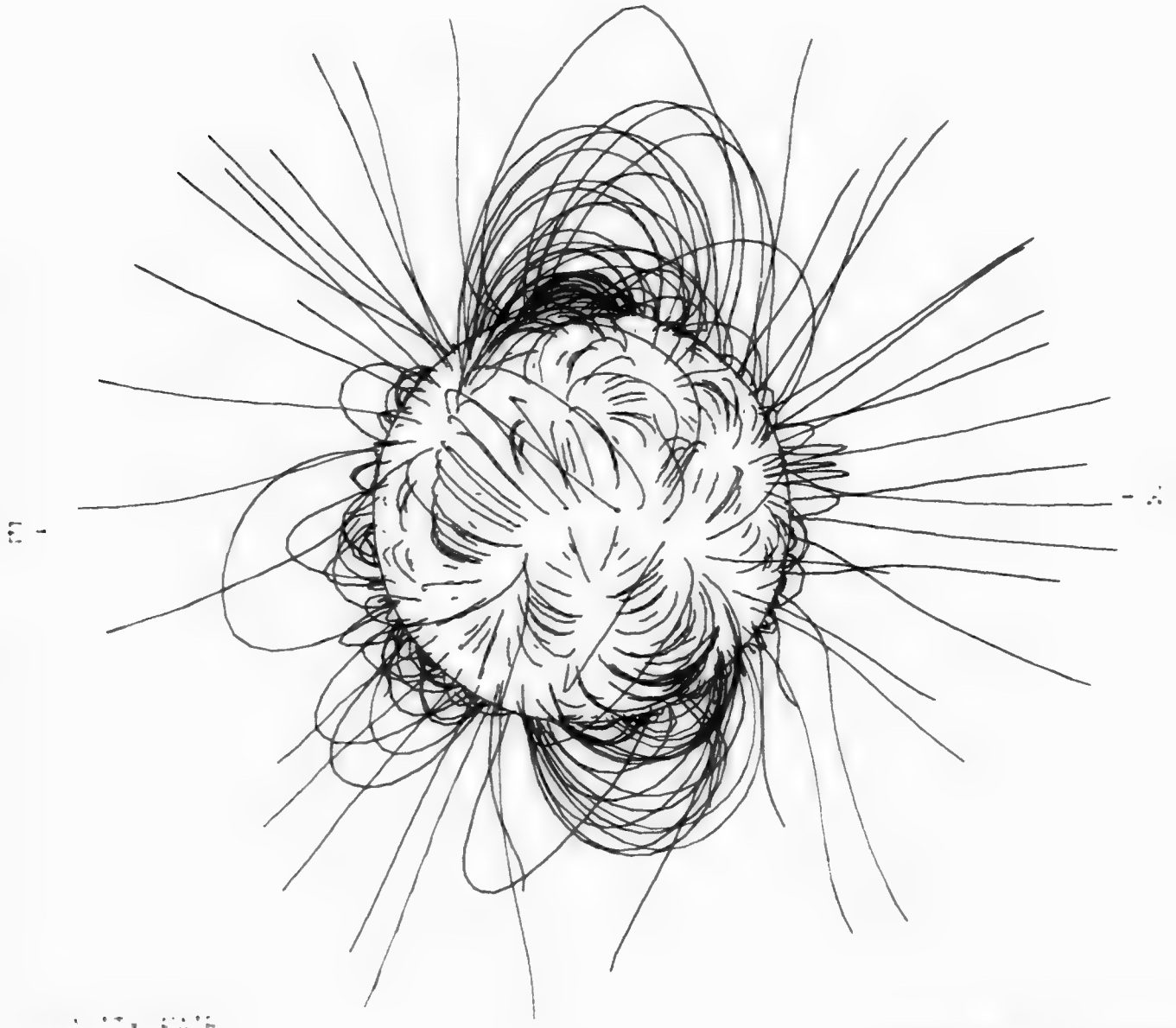
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



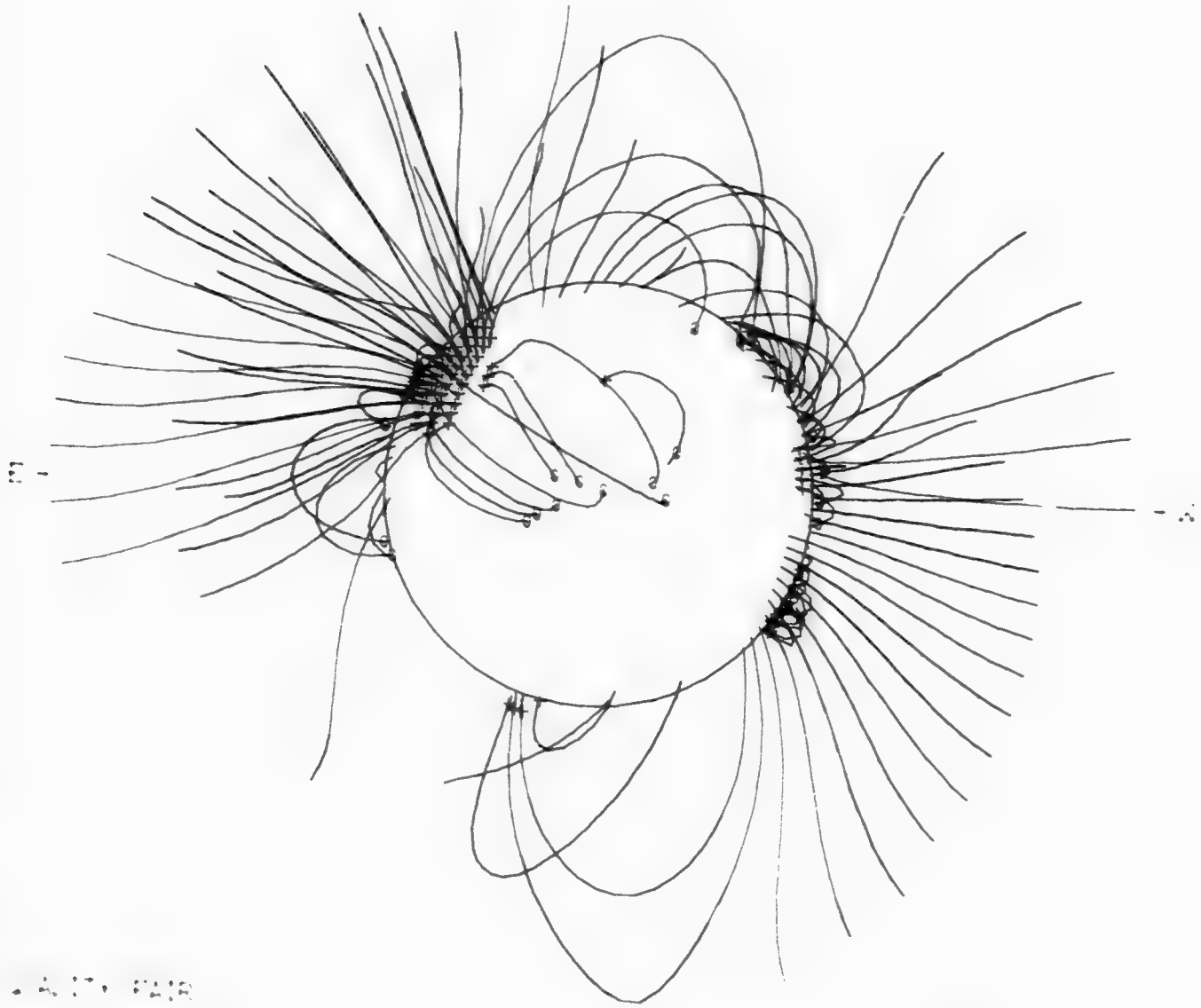
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



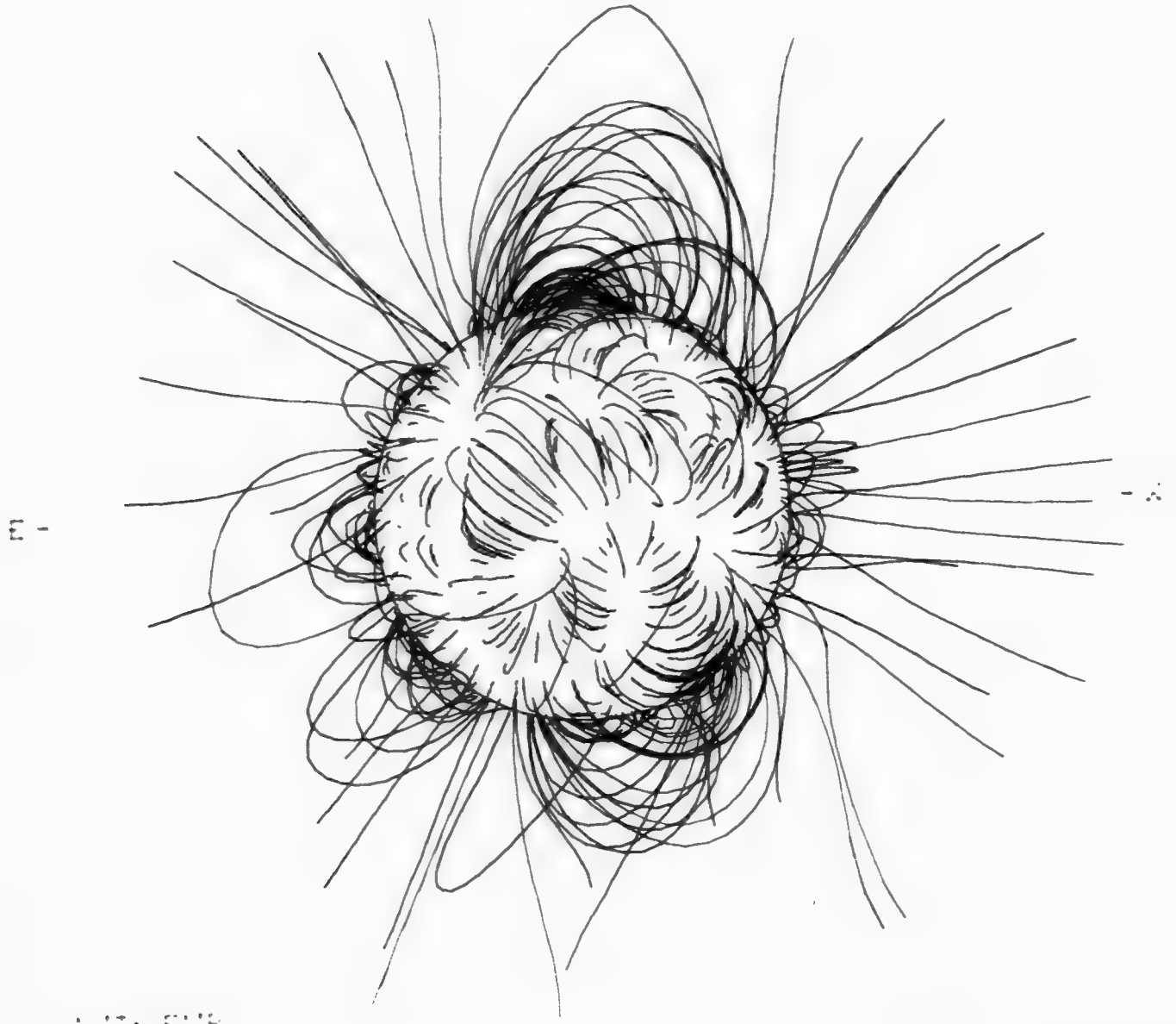
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



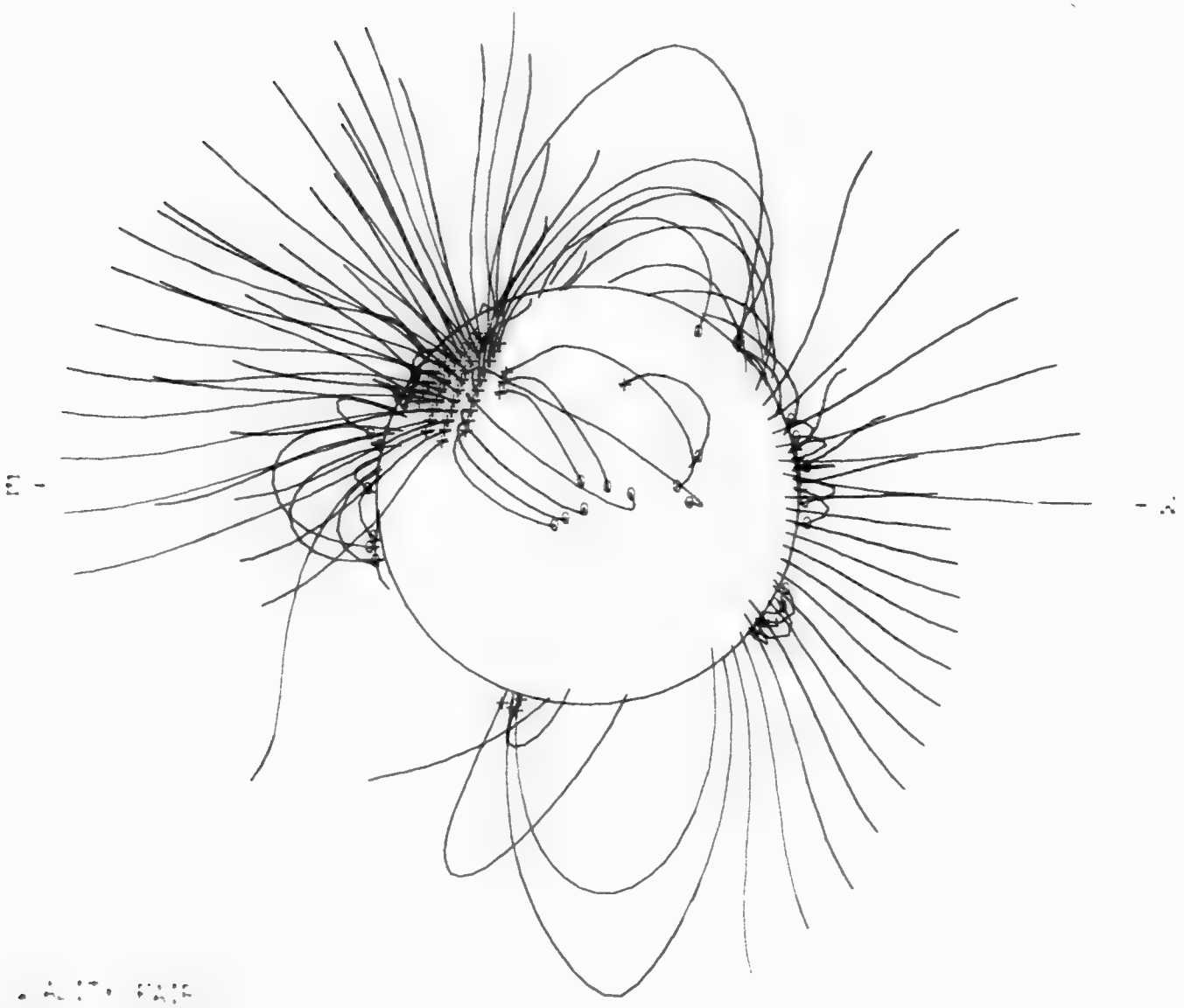
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



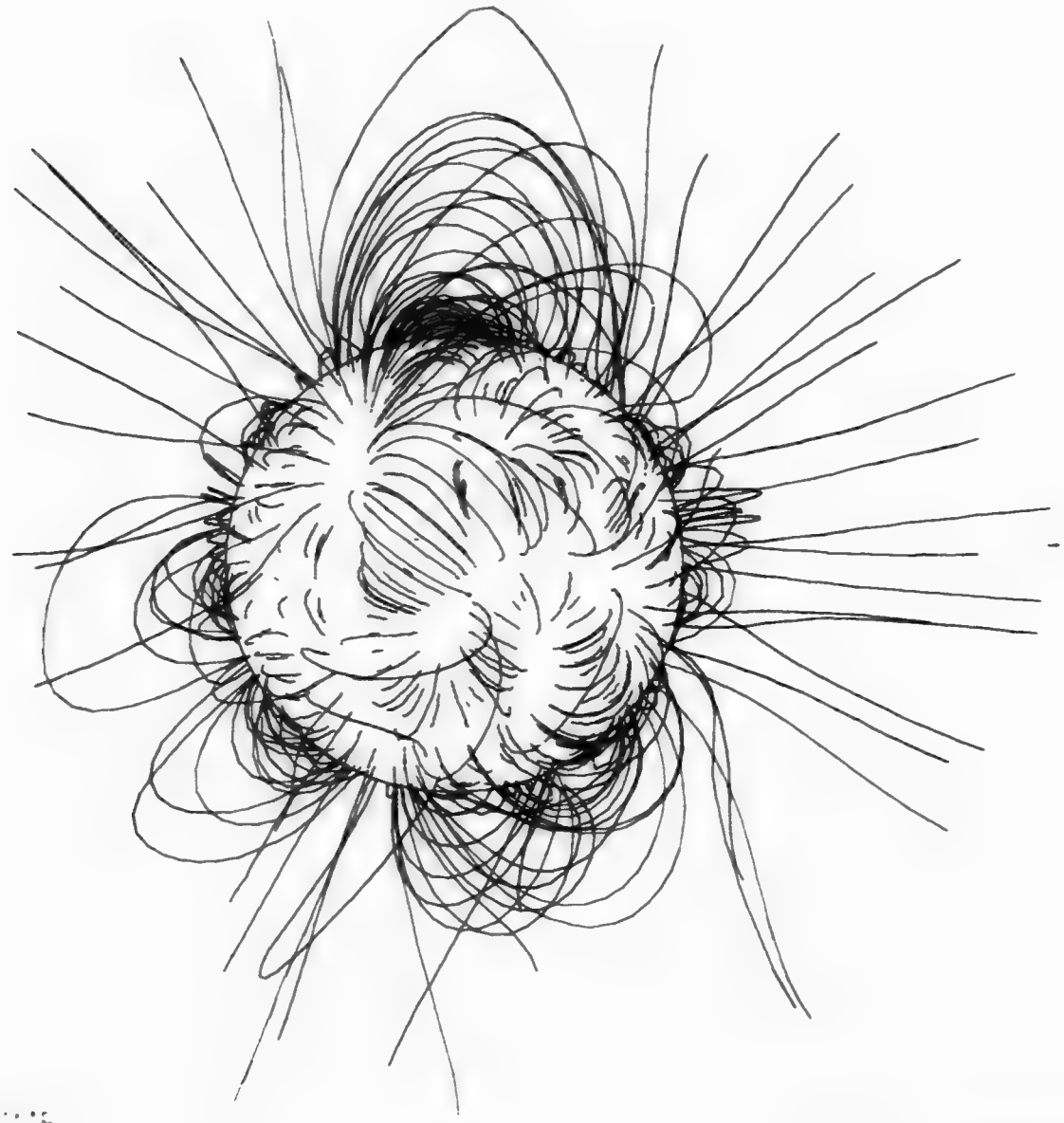
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



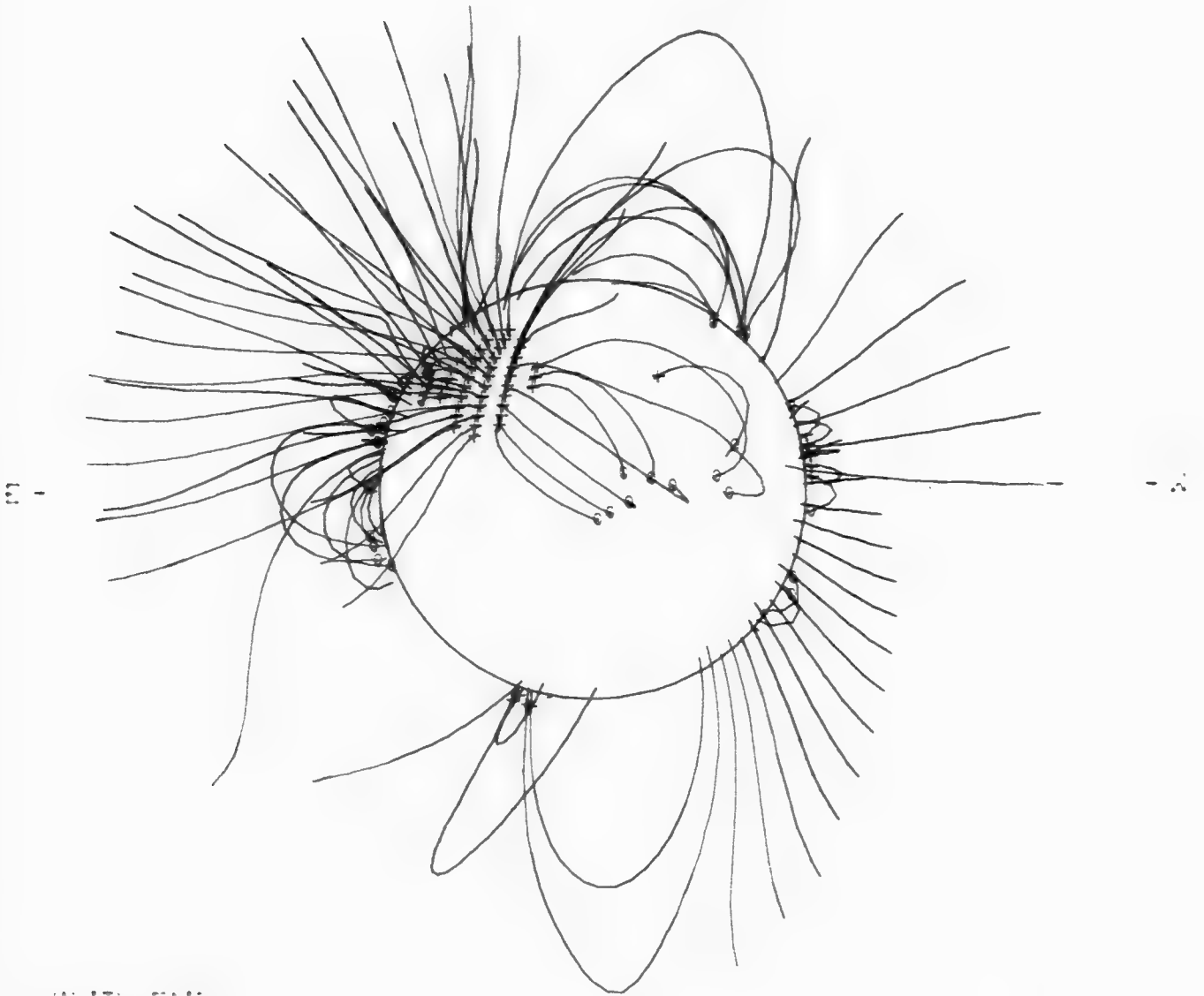
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



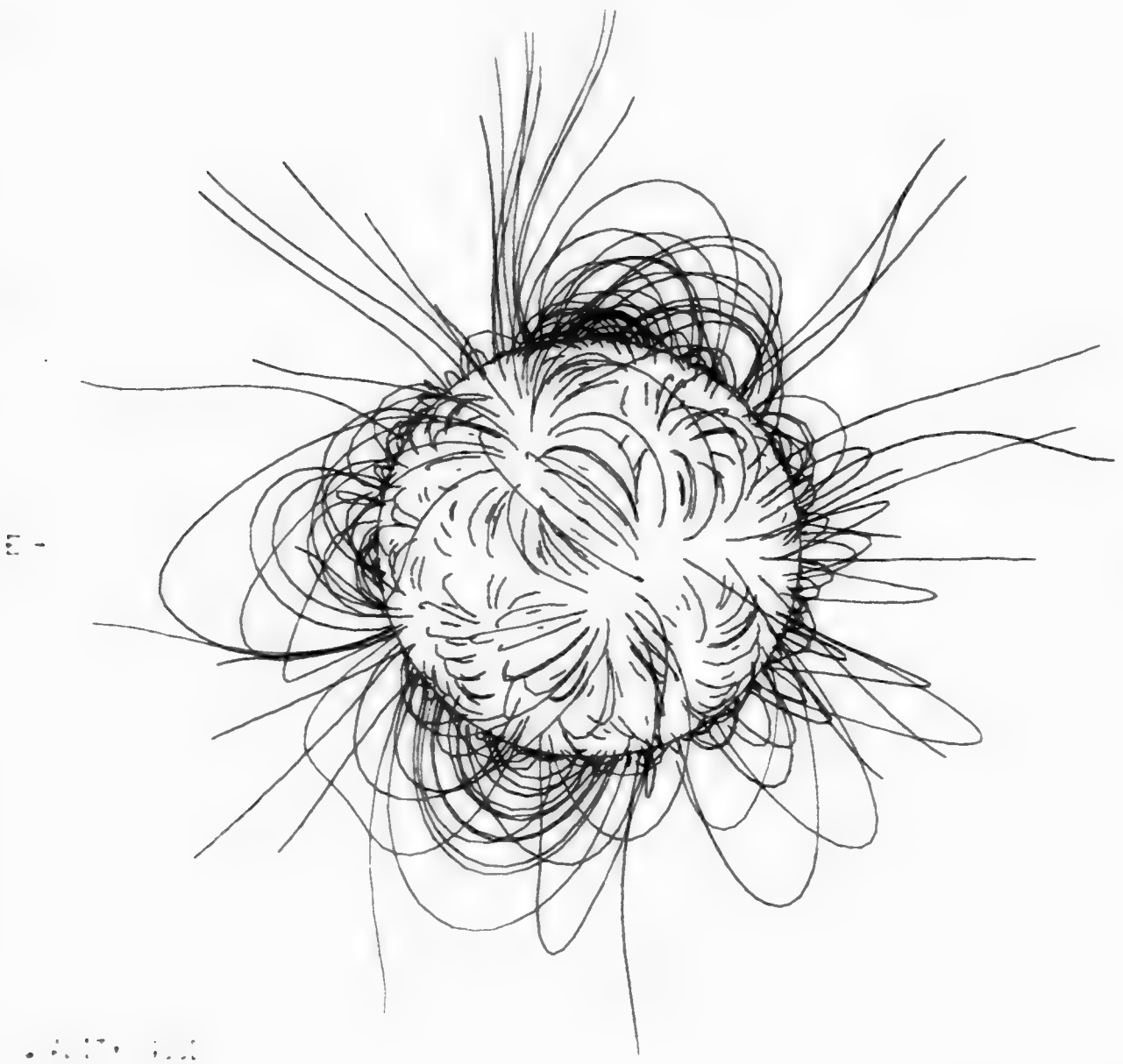
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



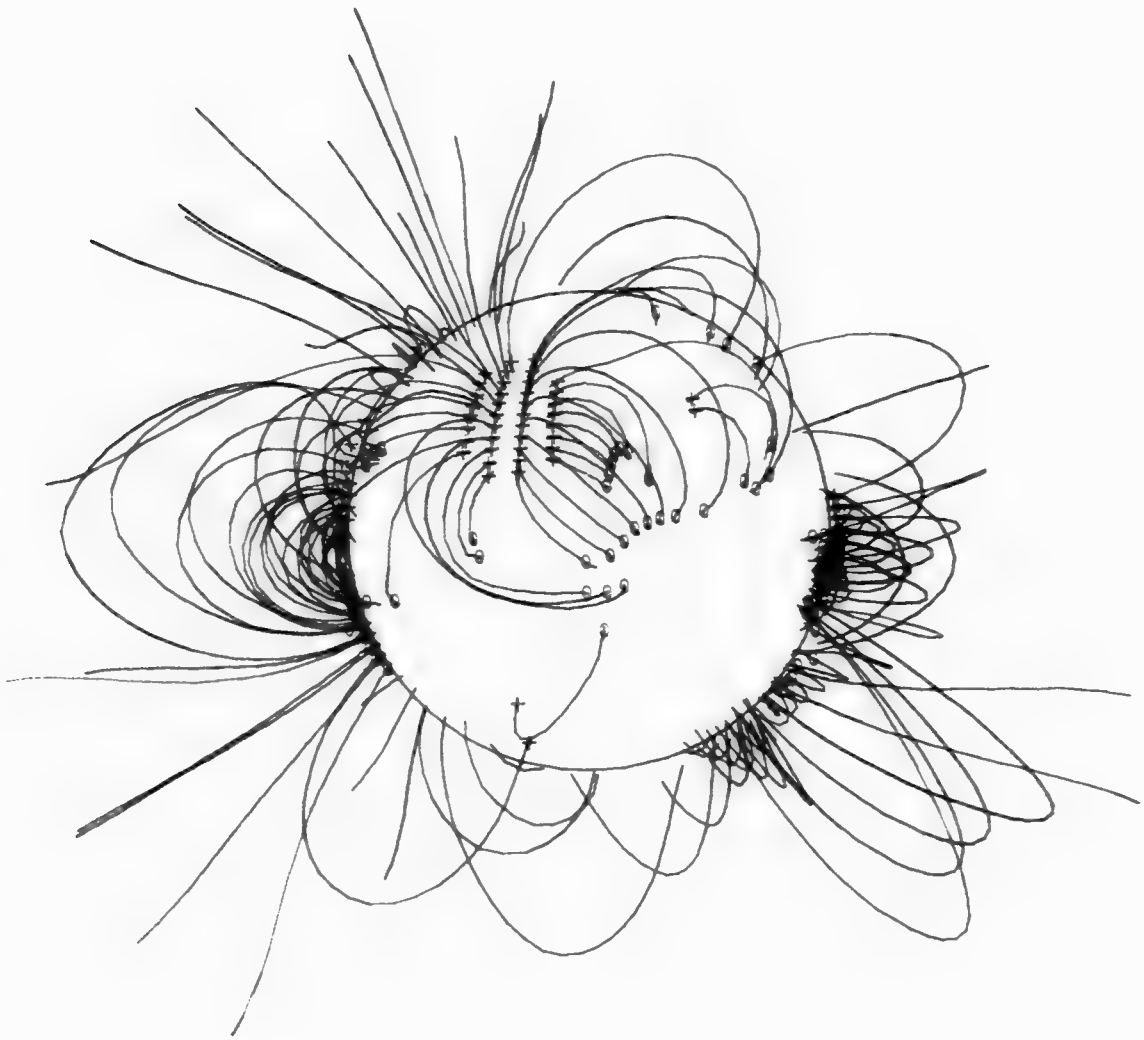
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



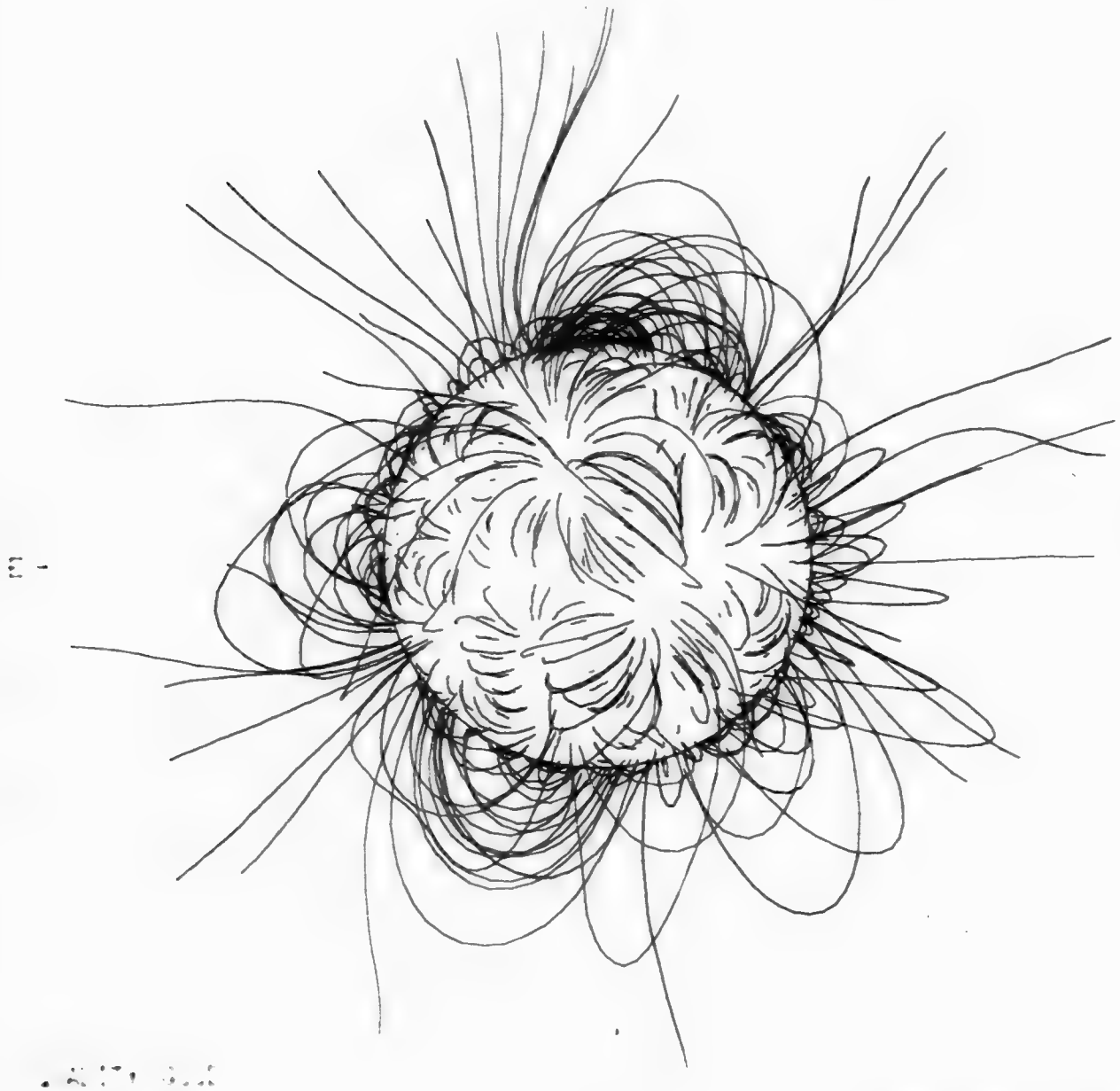
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



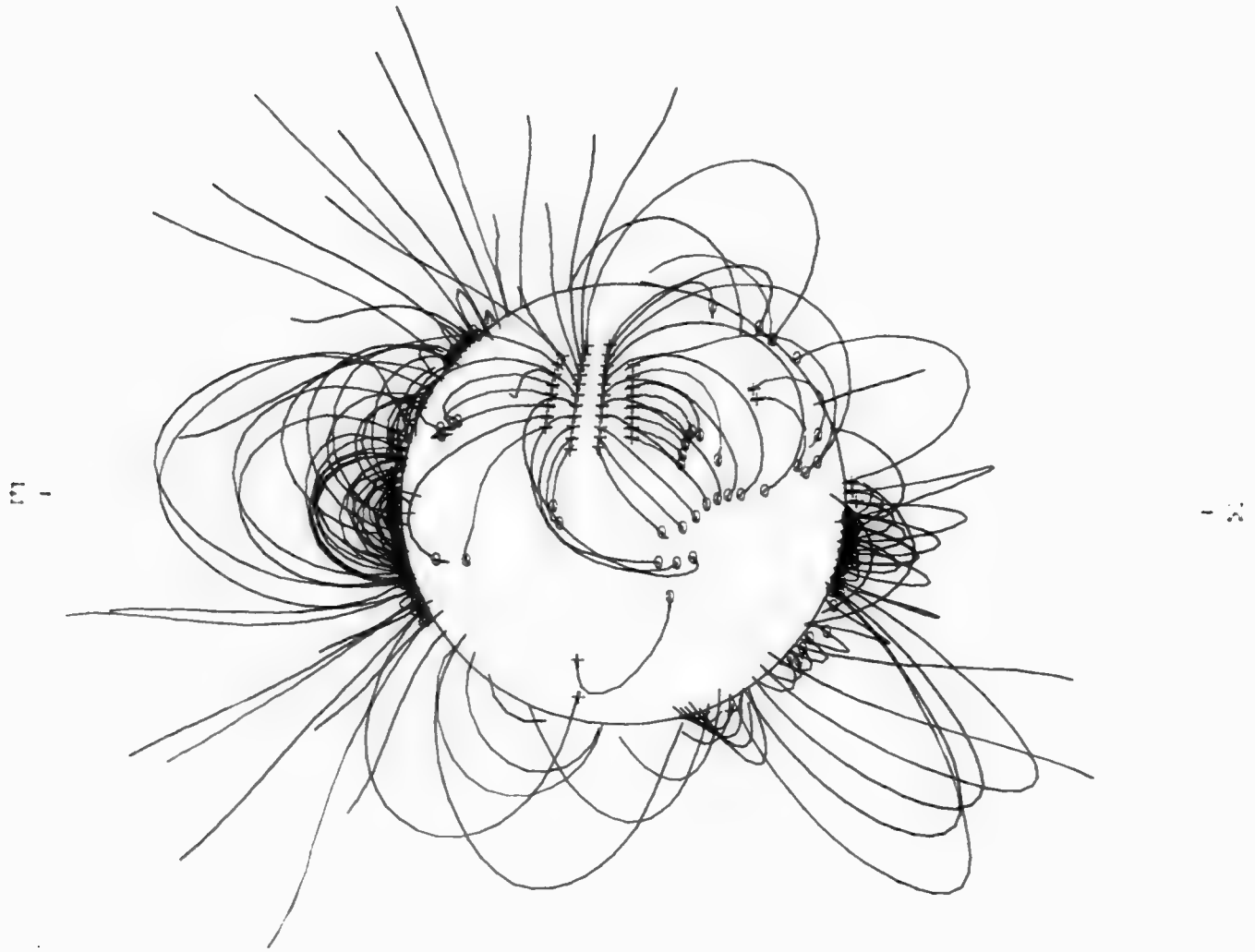
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



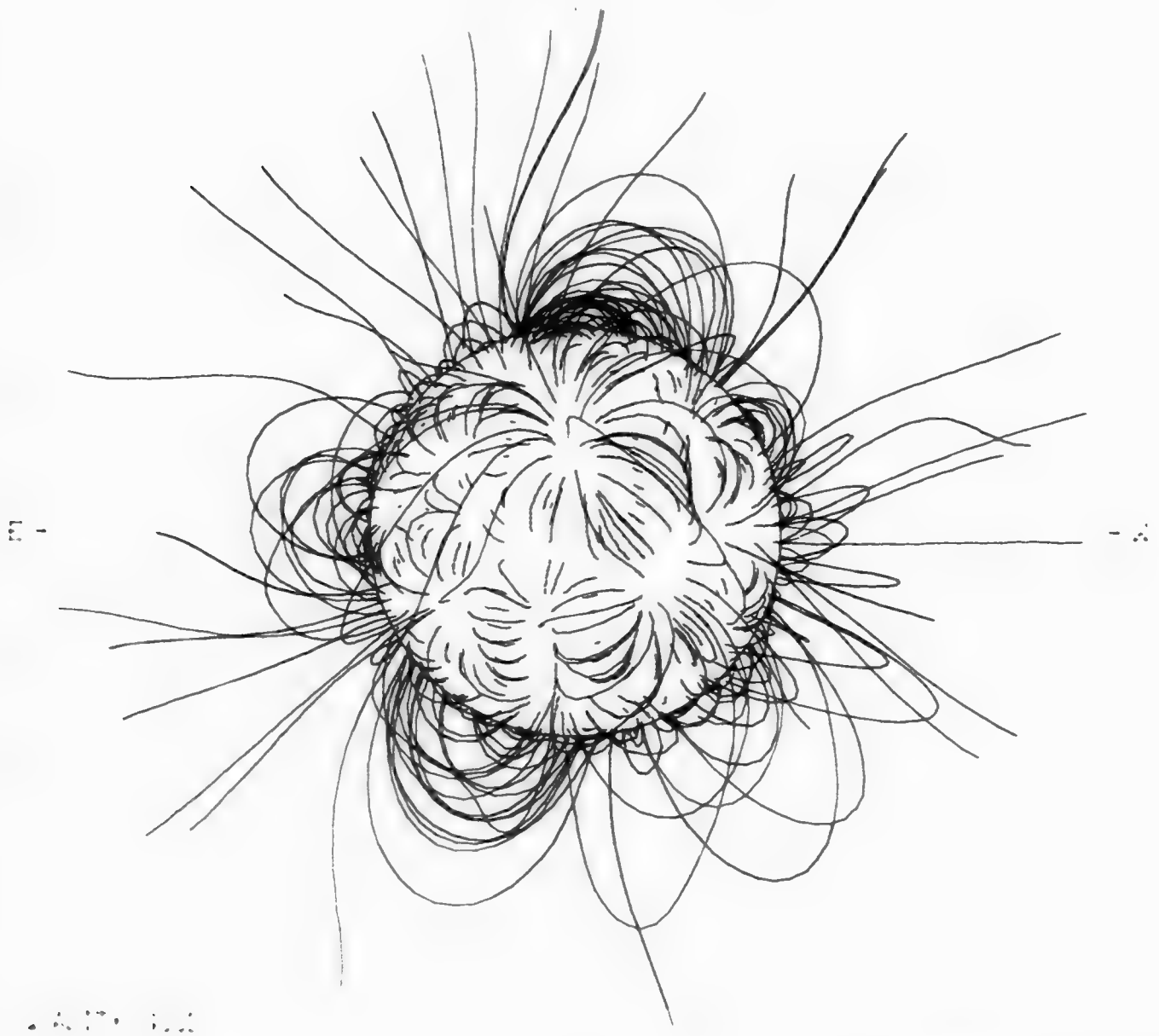
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



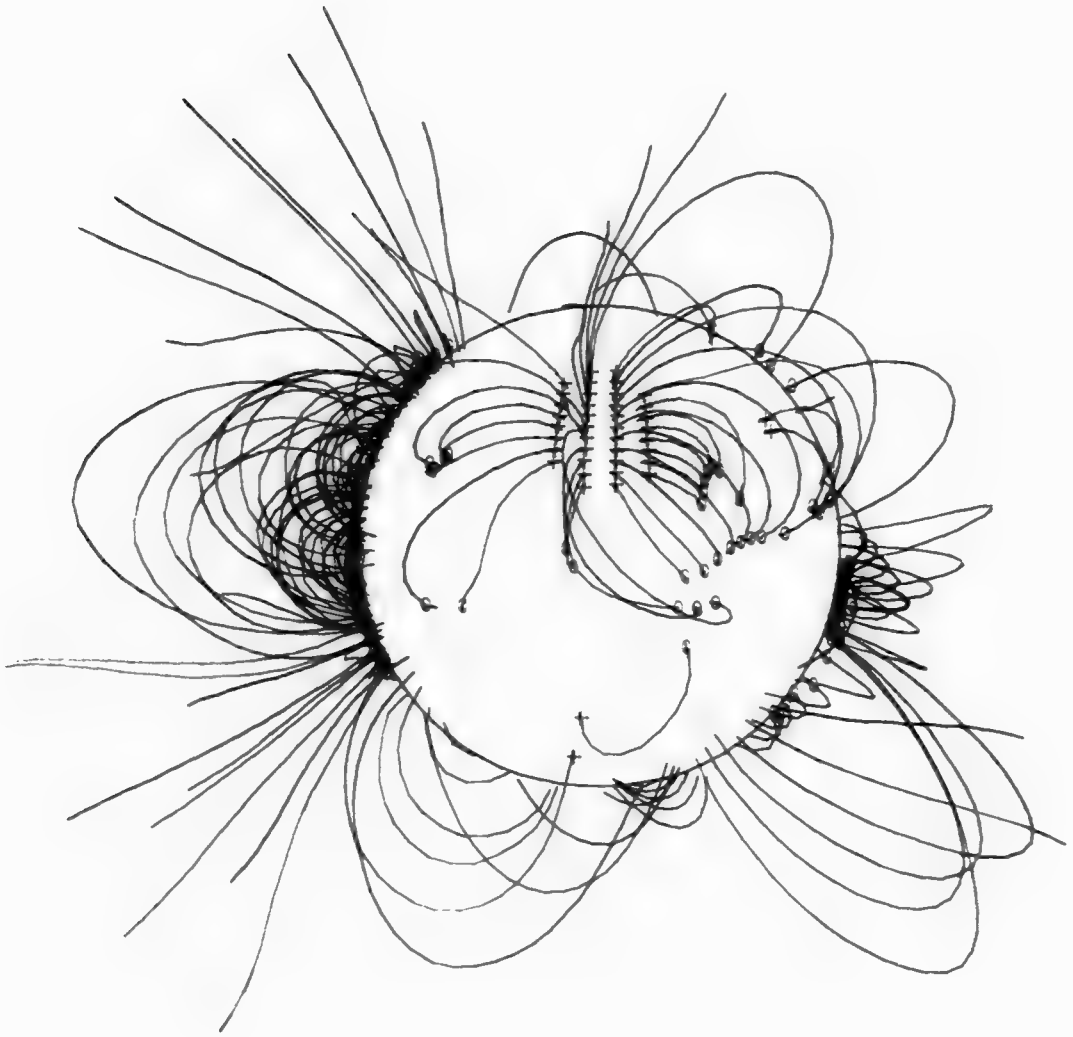
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



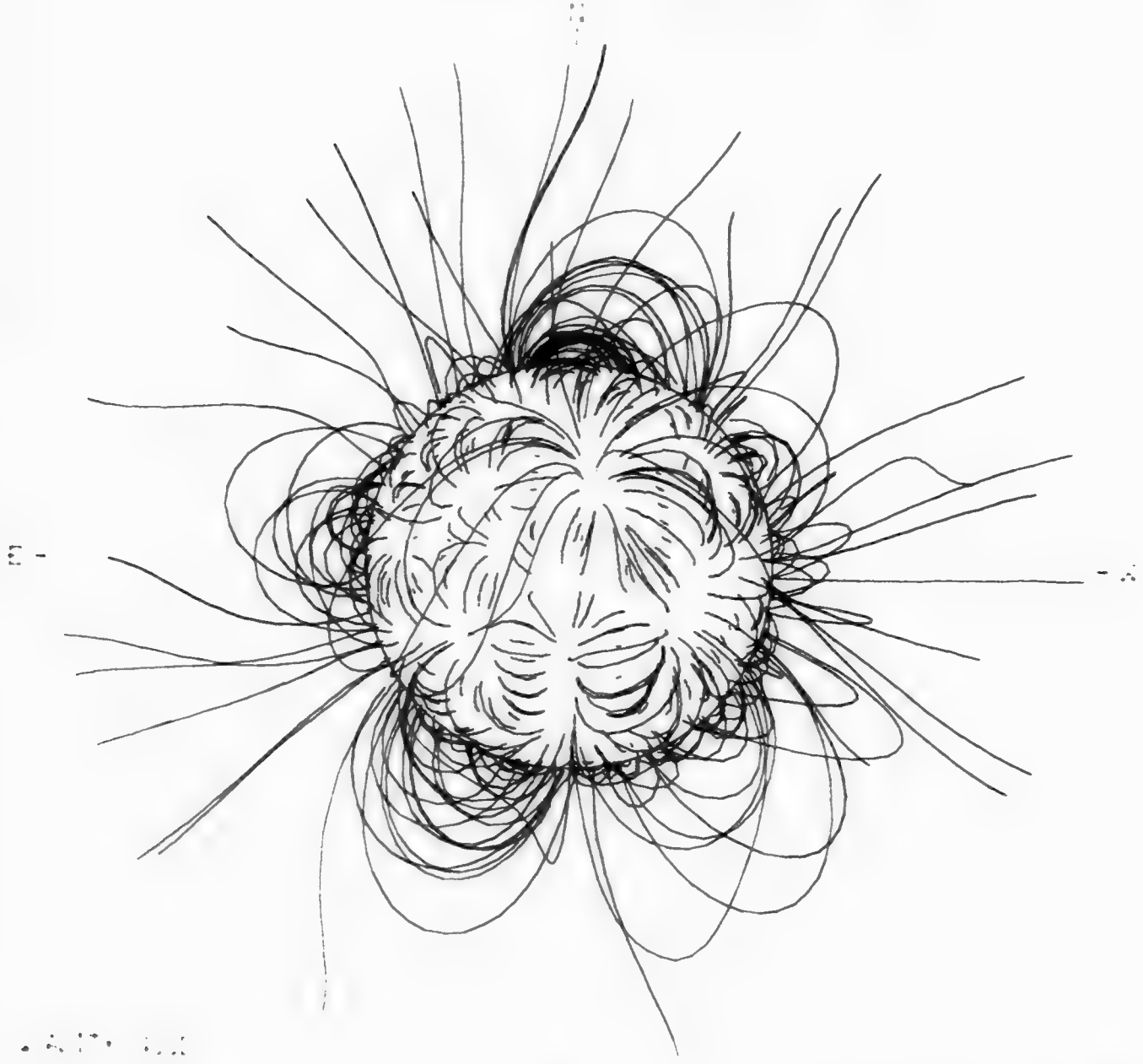
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



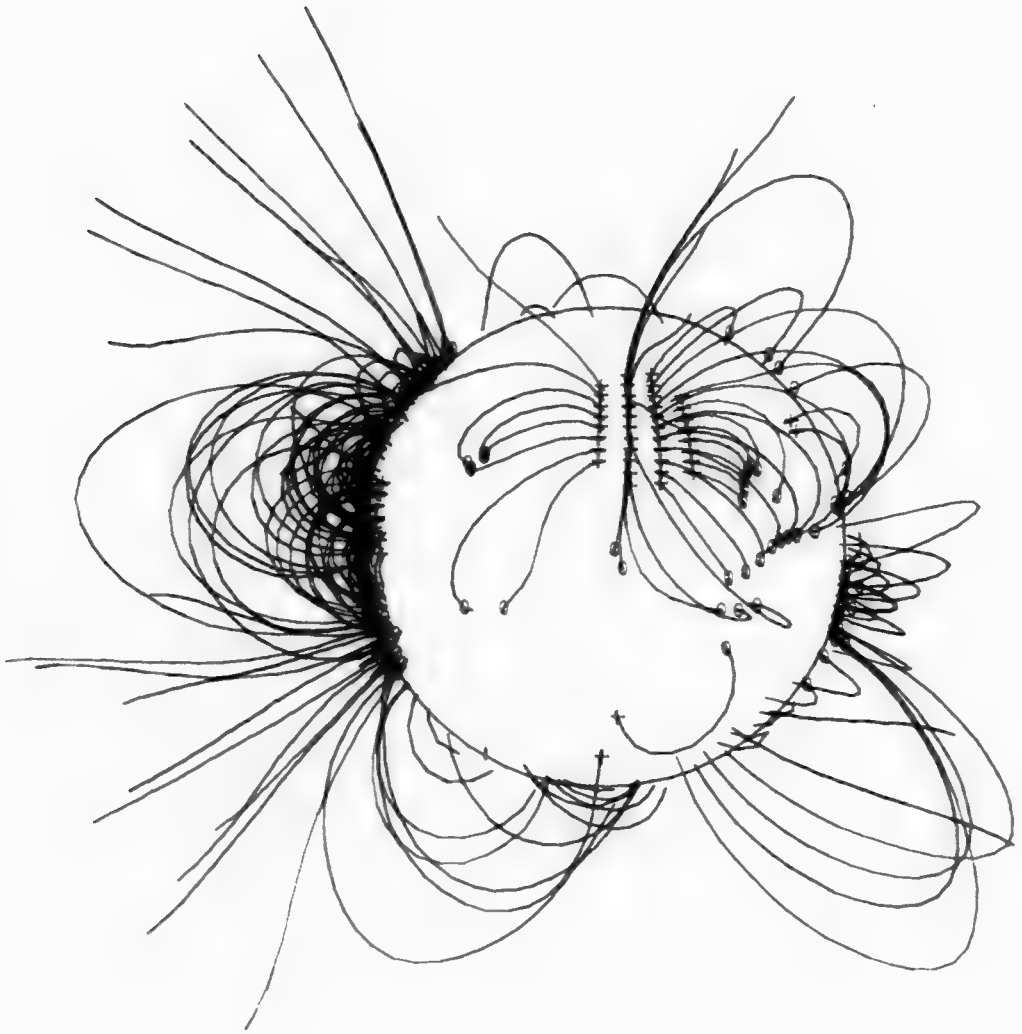
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



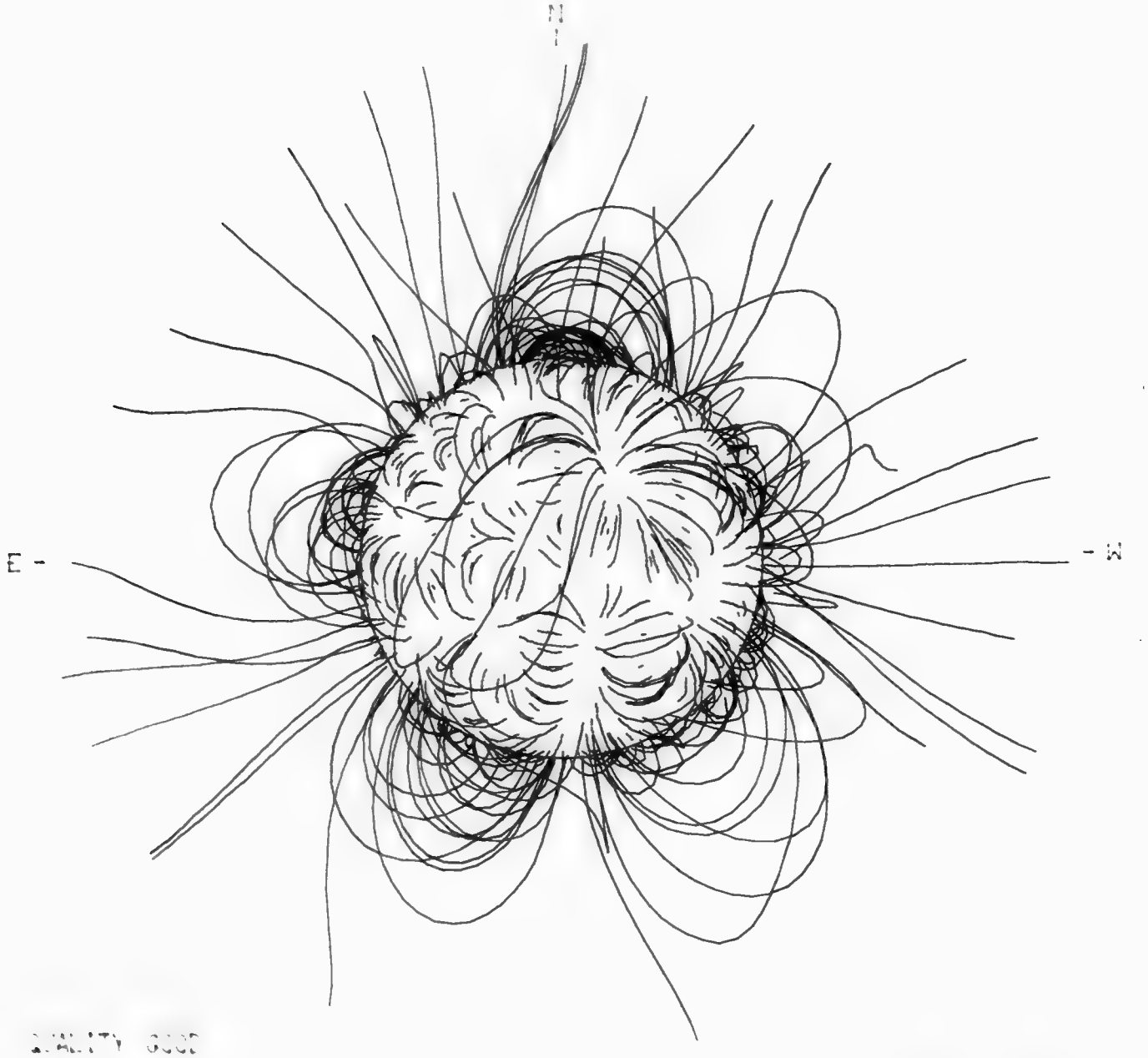
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



QUALITY GOOD

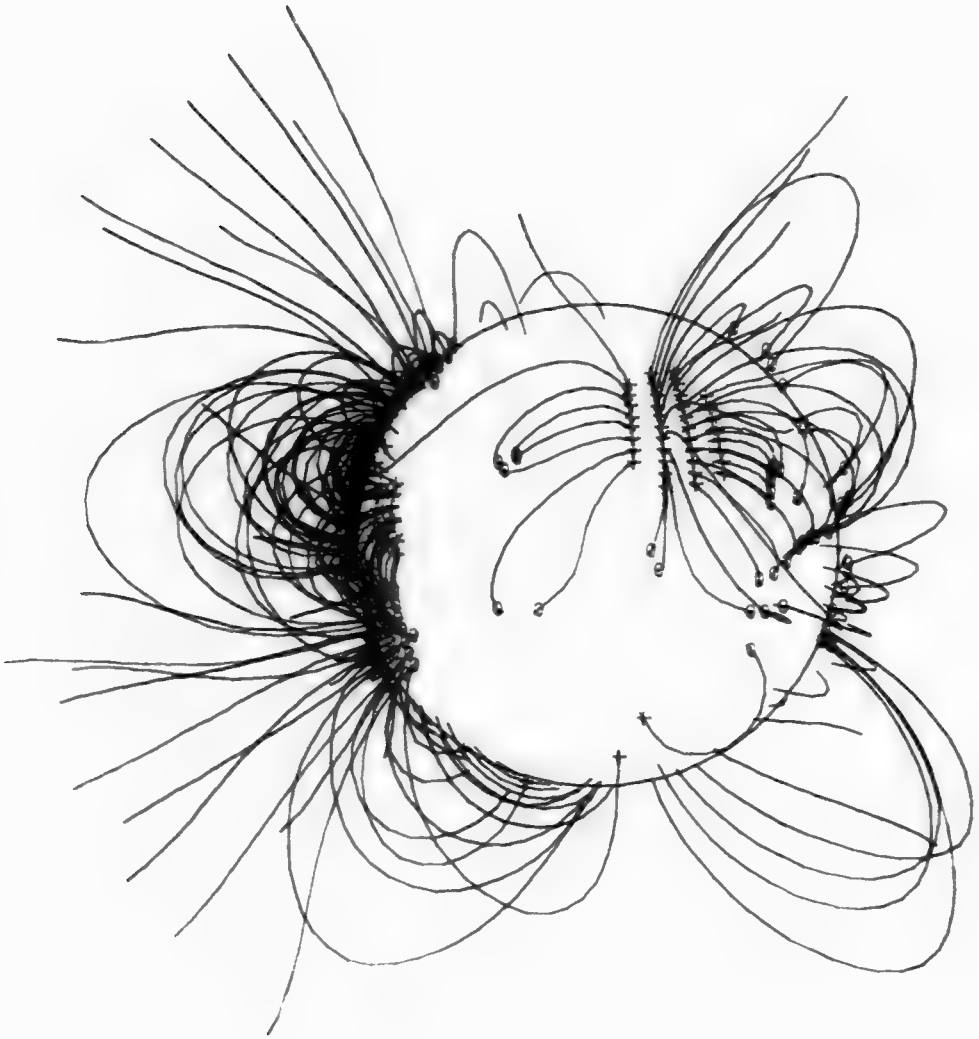
POLES DIRECT

DATA WINDOW 1552.00

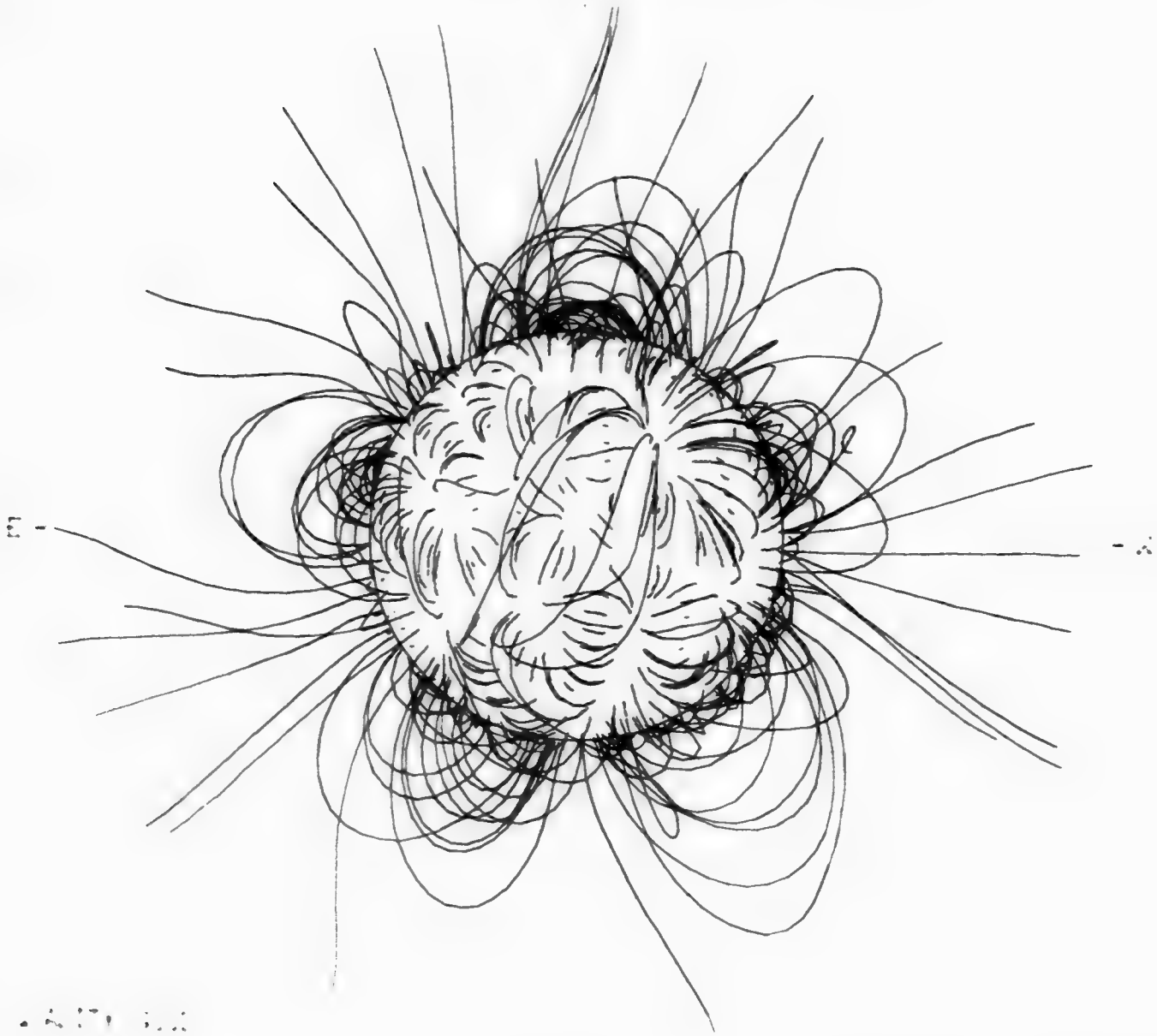
ROT. 1552 LONG. 220°

17.3 SEP 1969

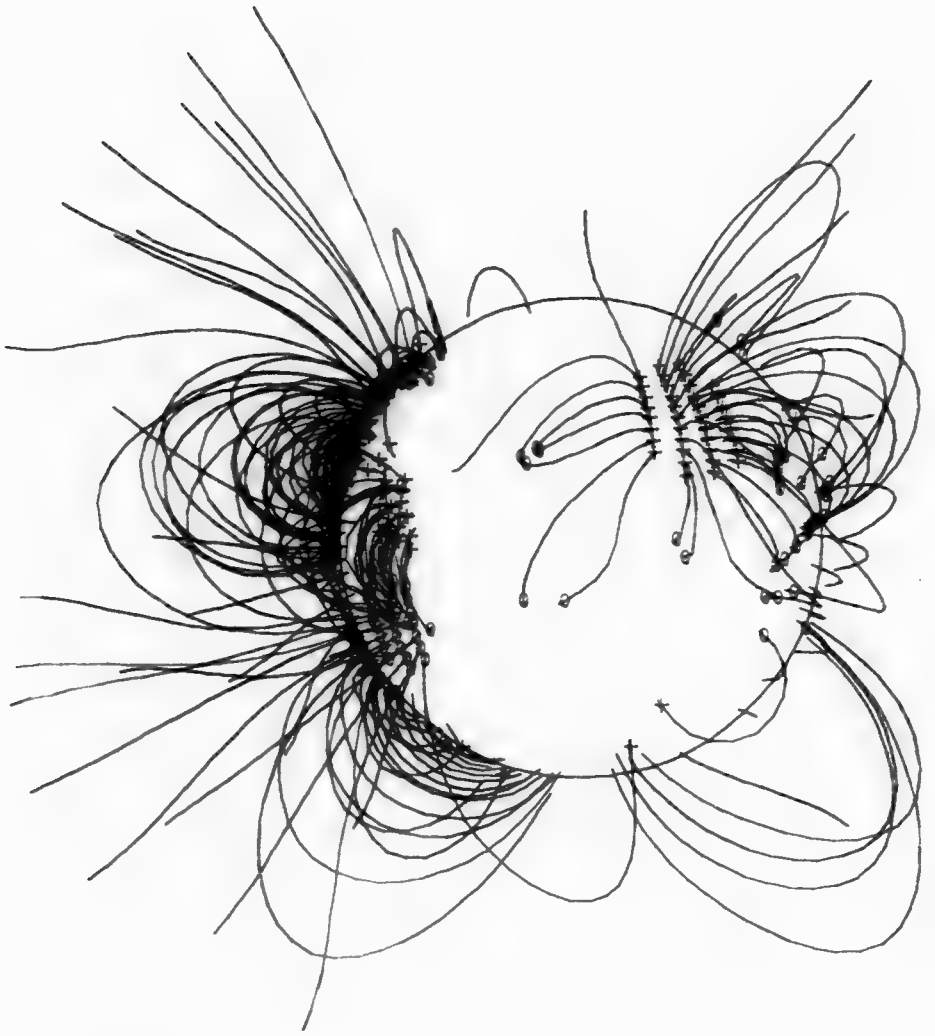
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



E -

- A

. ALT: [illegible]

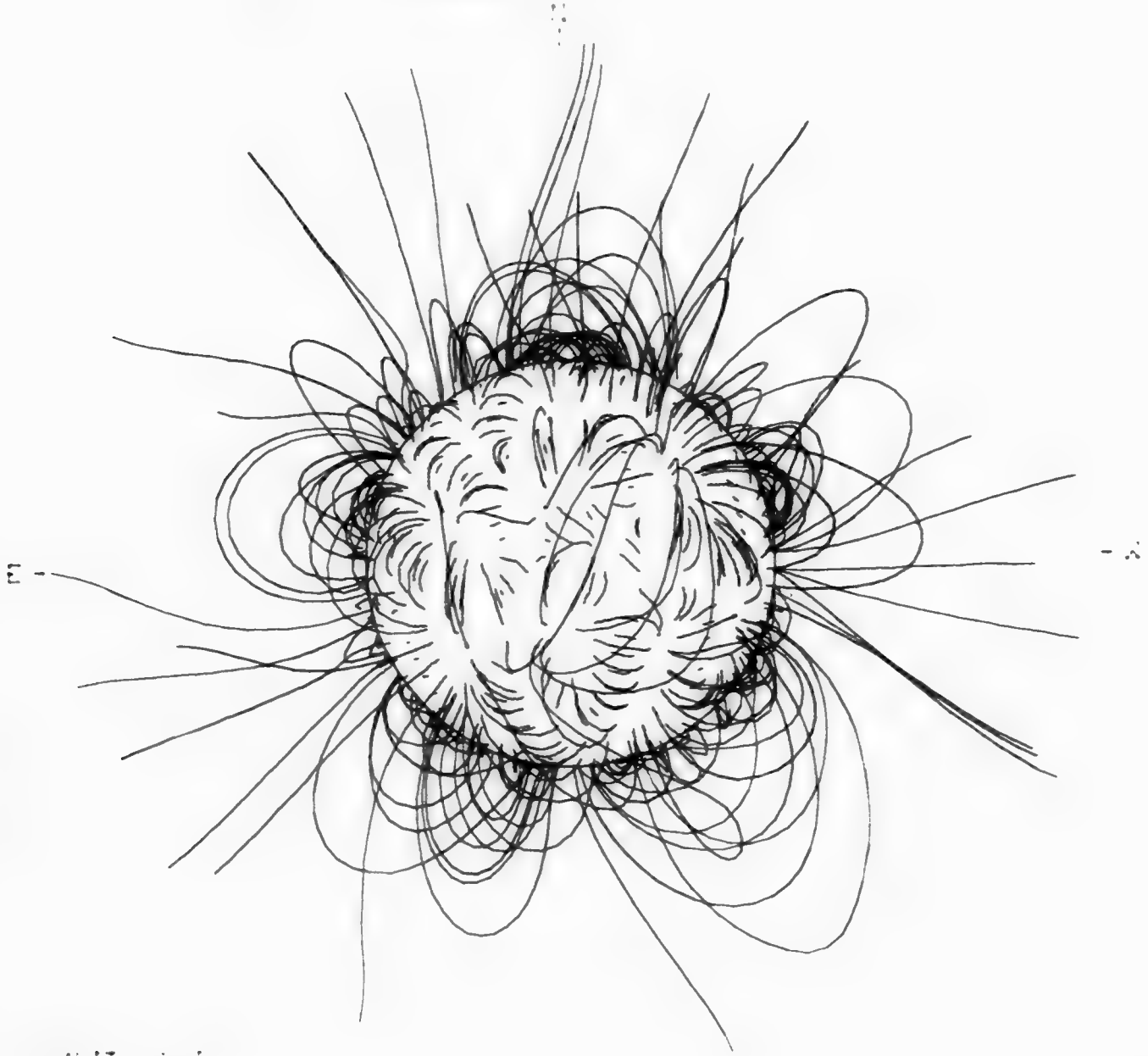
POLES DIRECT

DATA [illegible] 1552.00

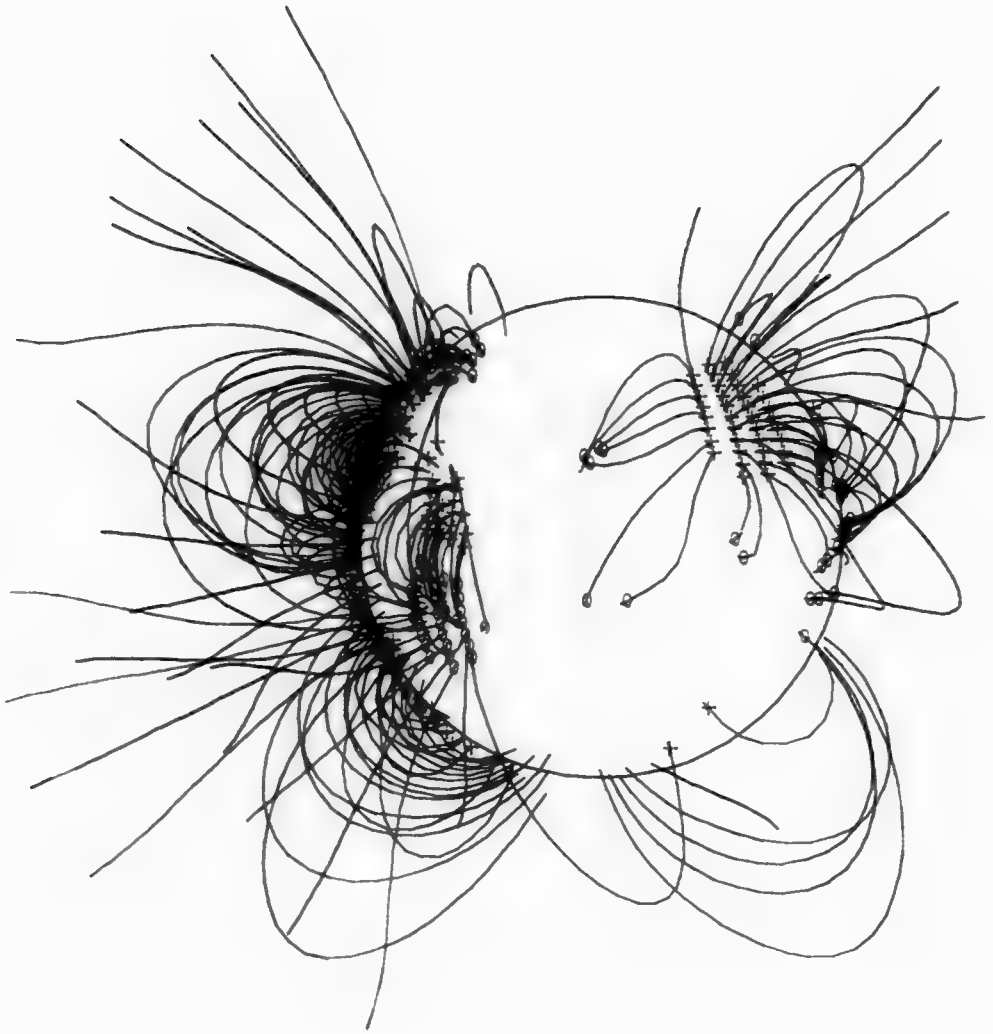
P.T. 1552 [illegible]

18.1 SEP 1969

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



E -

- A

QUALITY 1.1

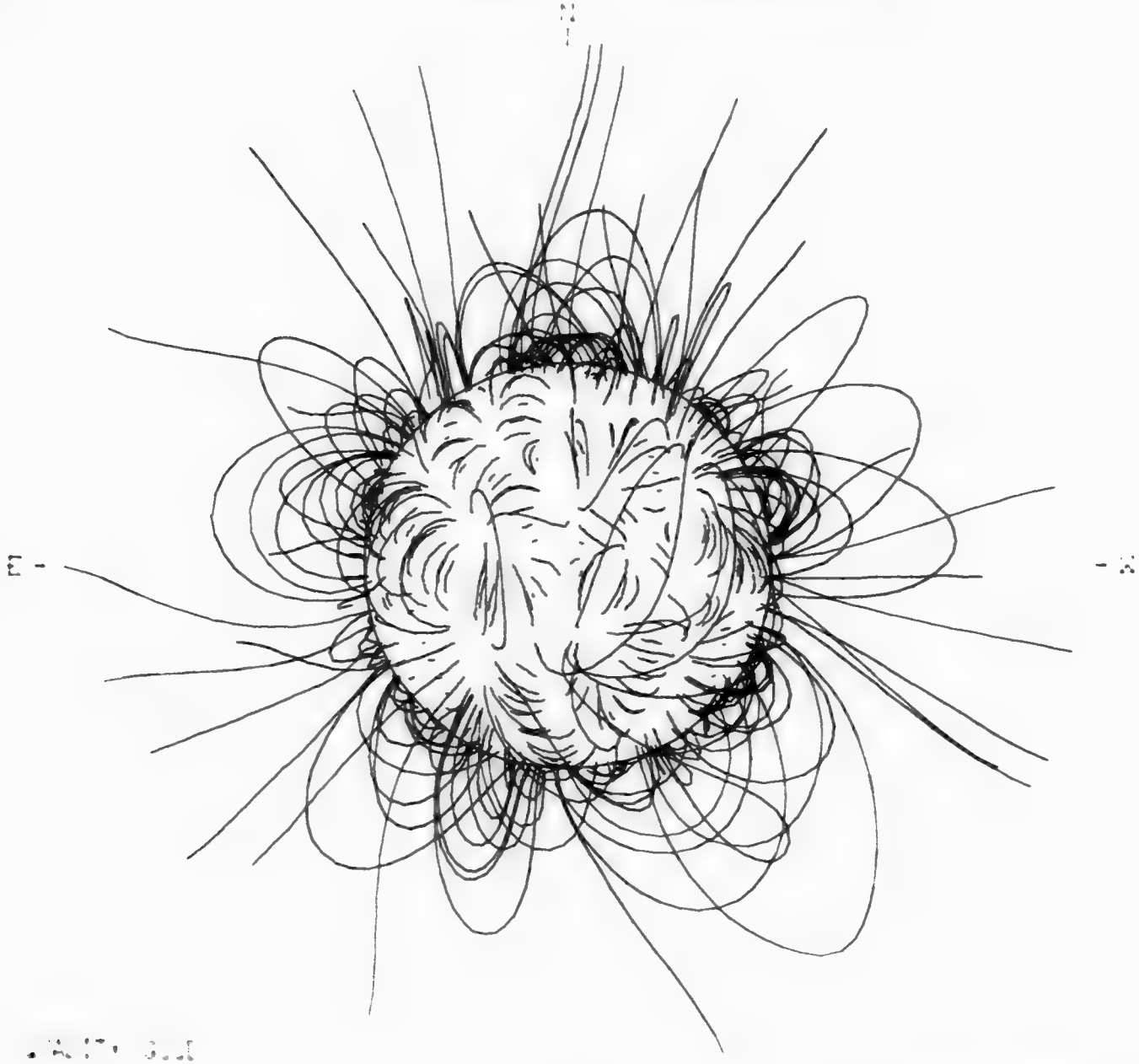
RULES DIRECT

DATA ARRIVAL 1552.00

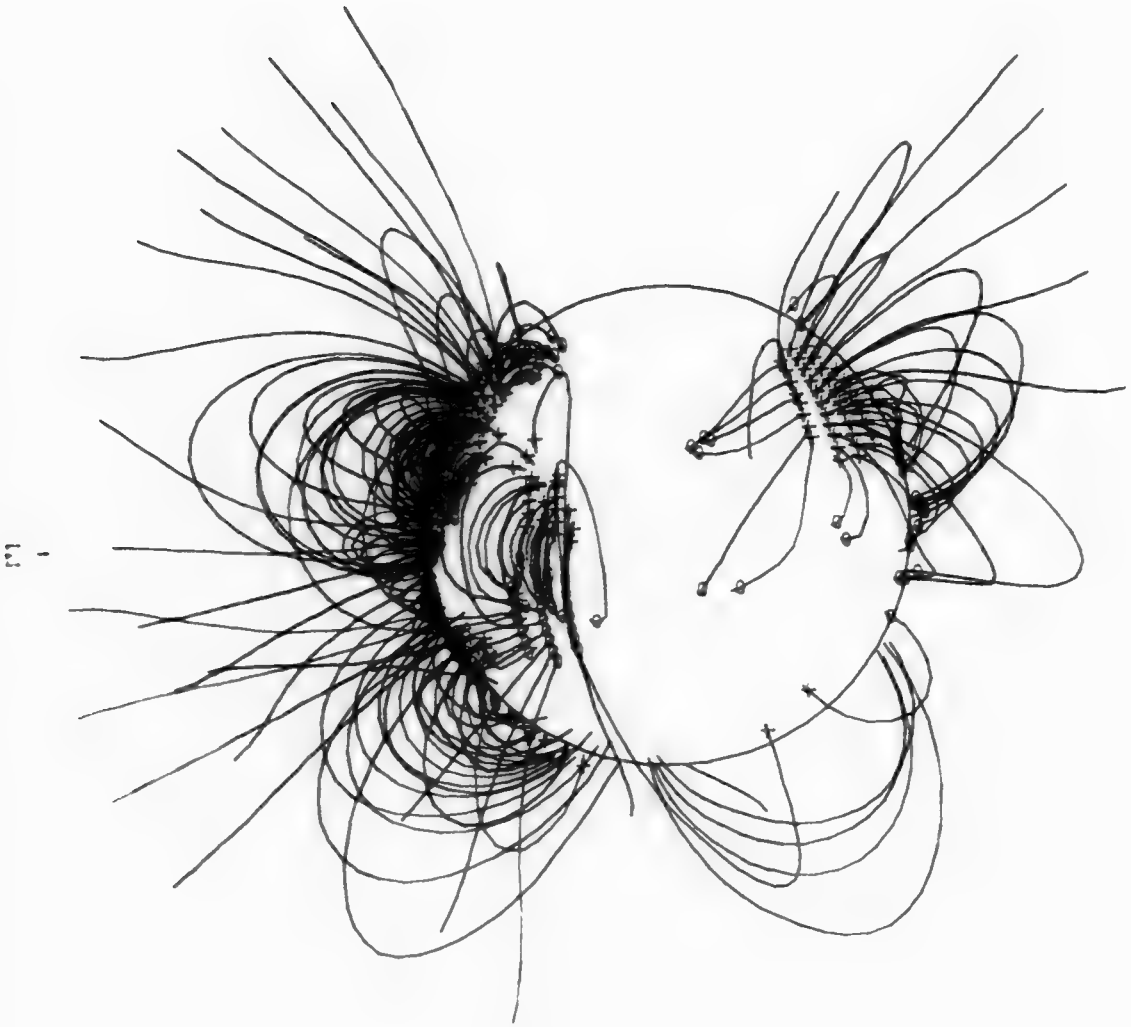
ROT. 1552 LONG. 210°

18.8 SEP 1965

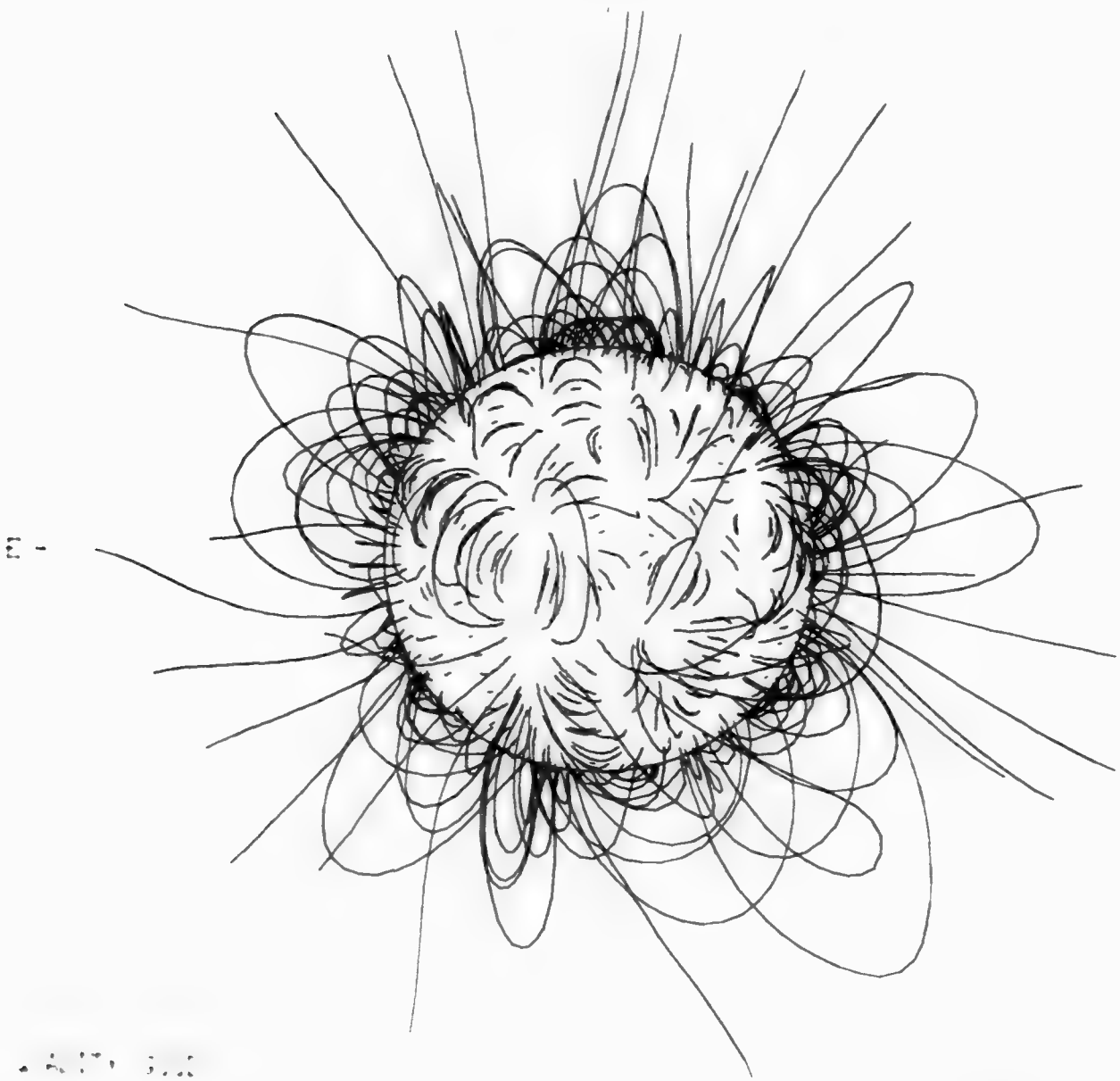
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



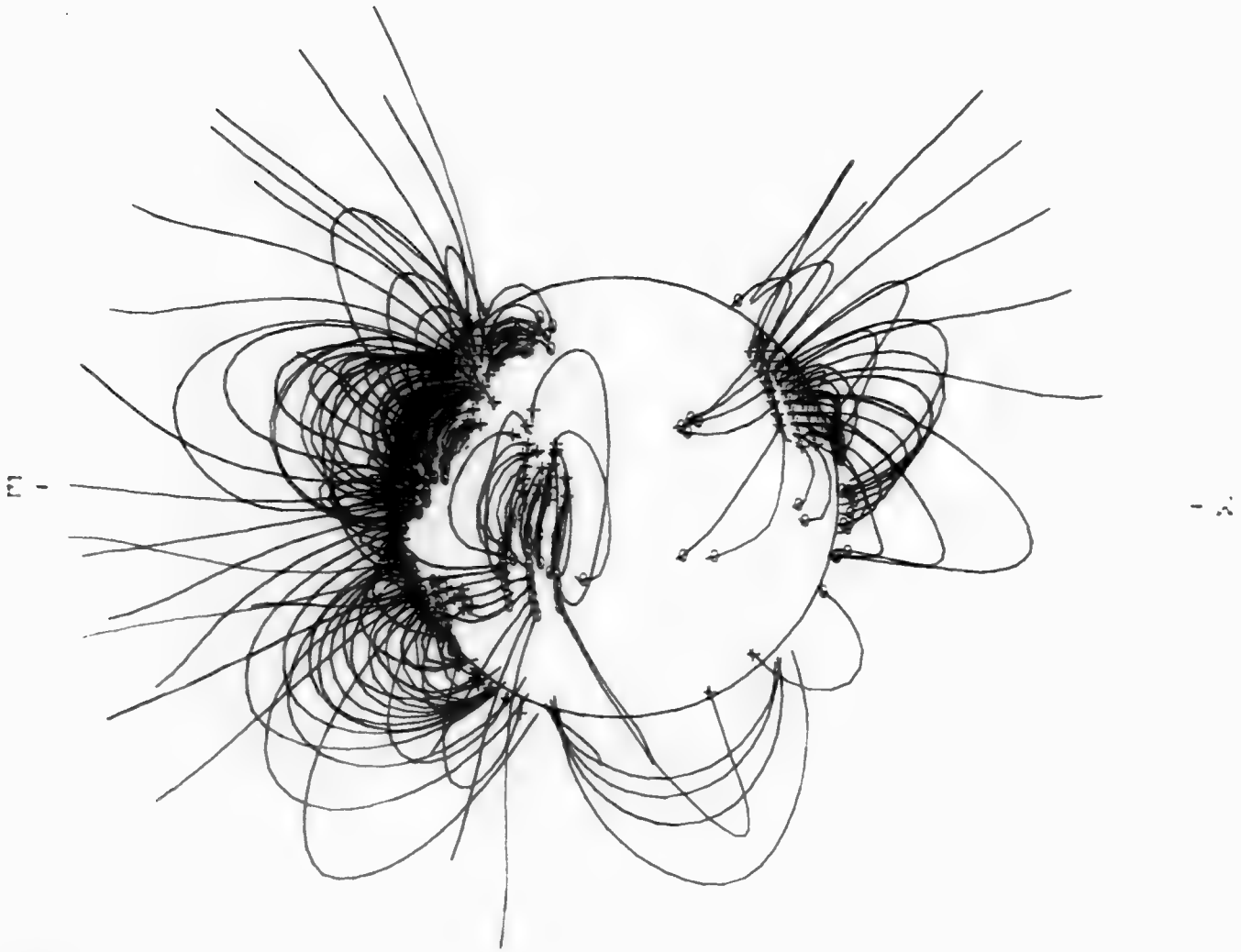
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

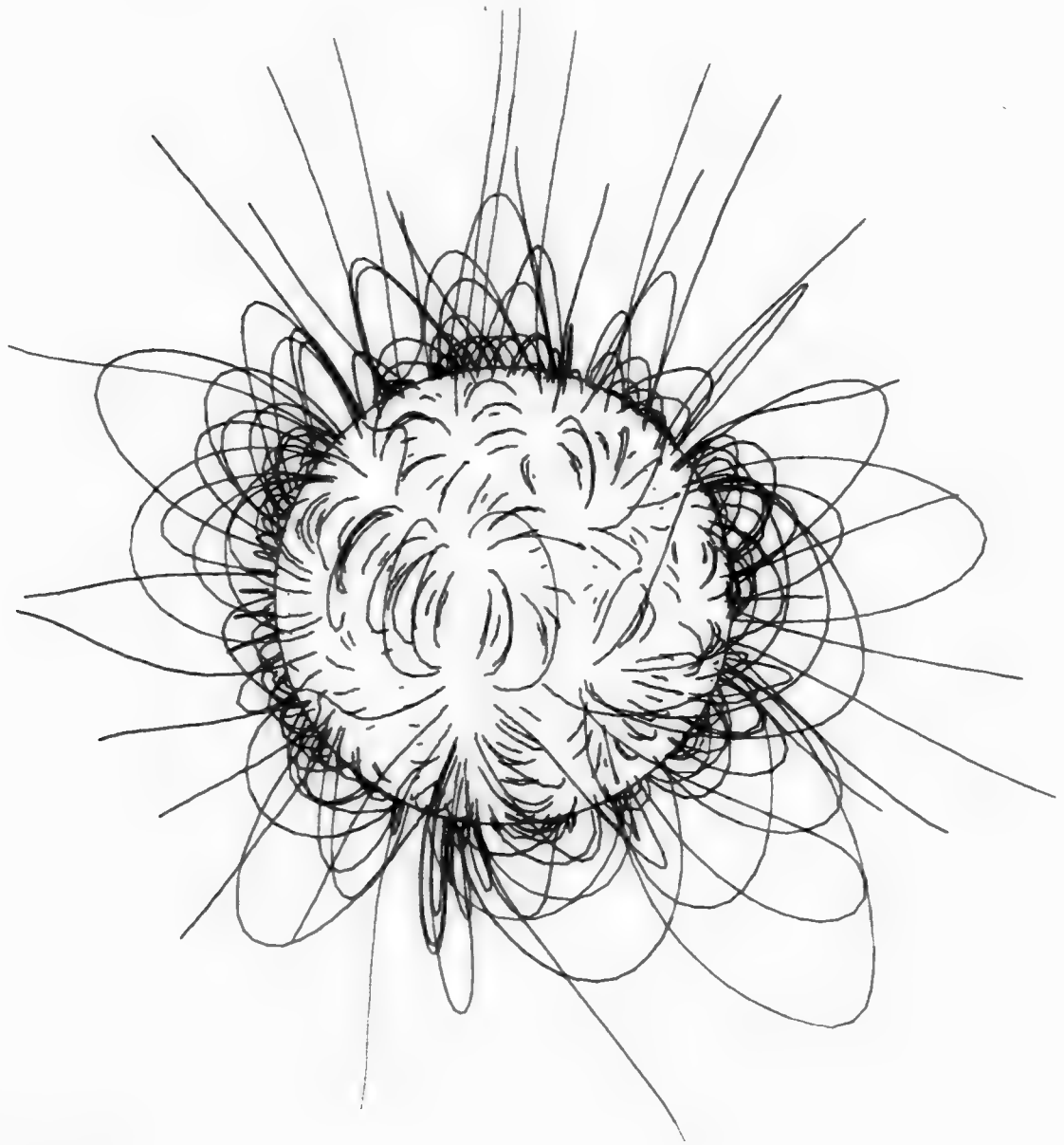


HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

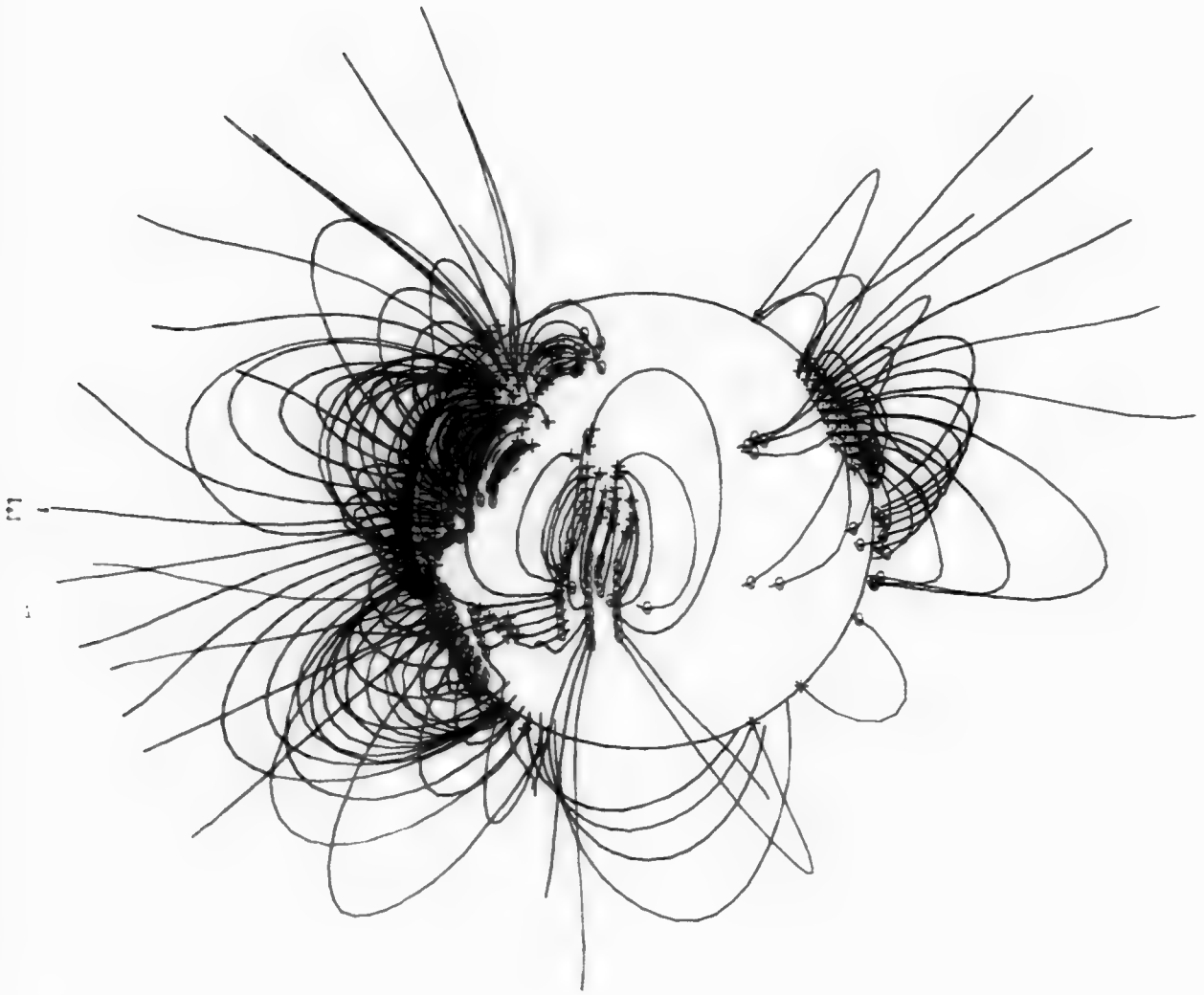


[illegible]

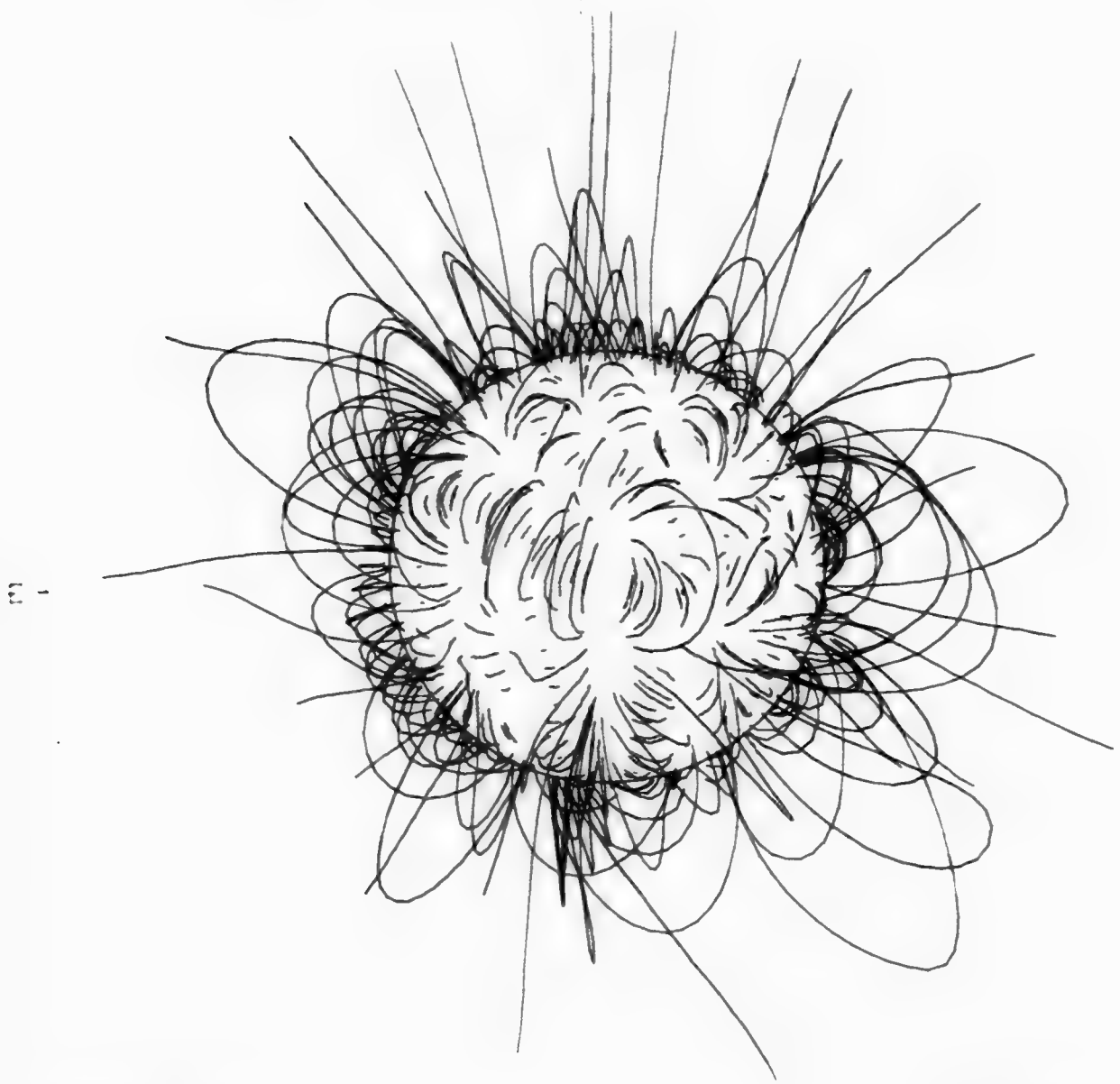
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



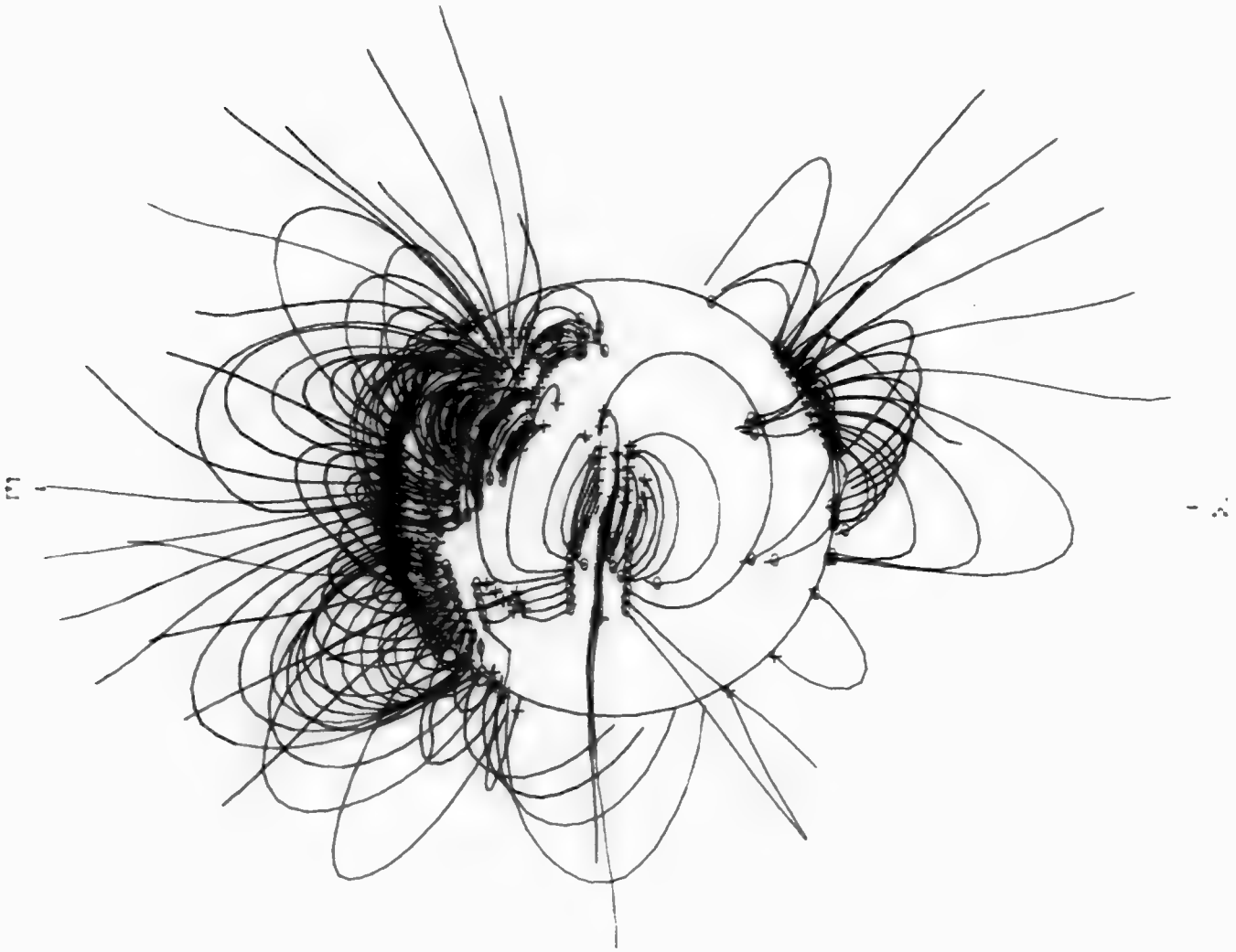
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



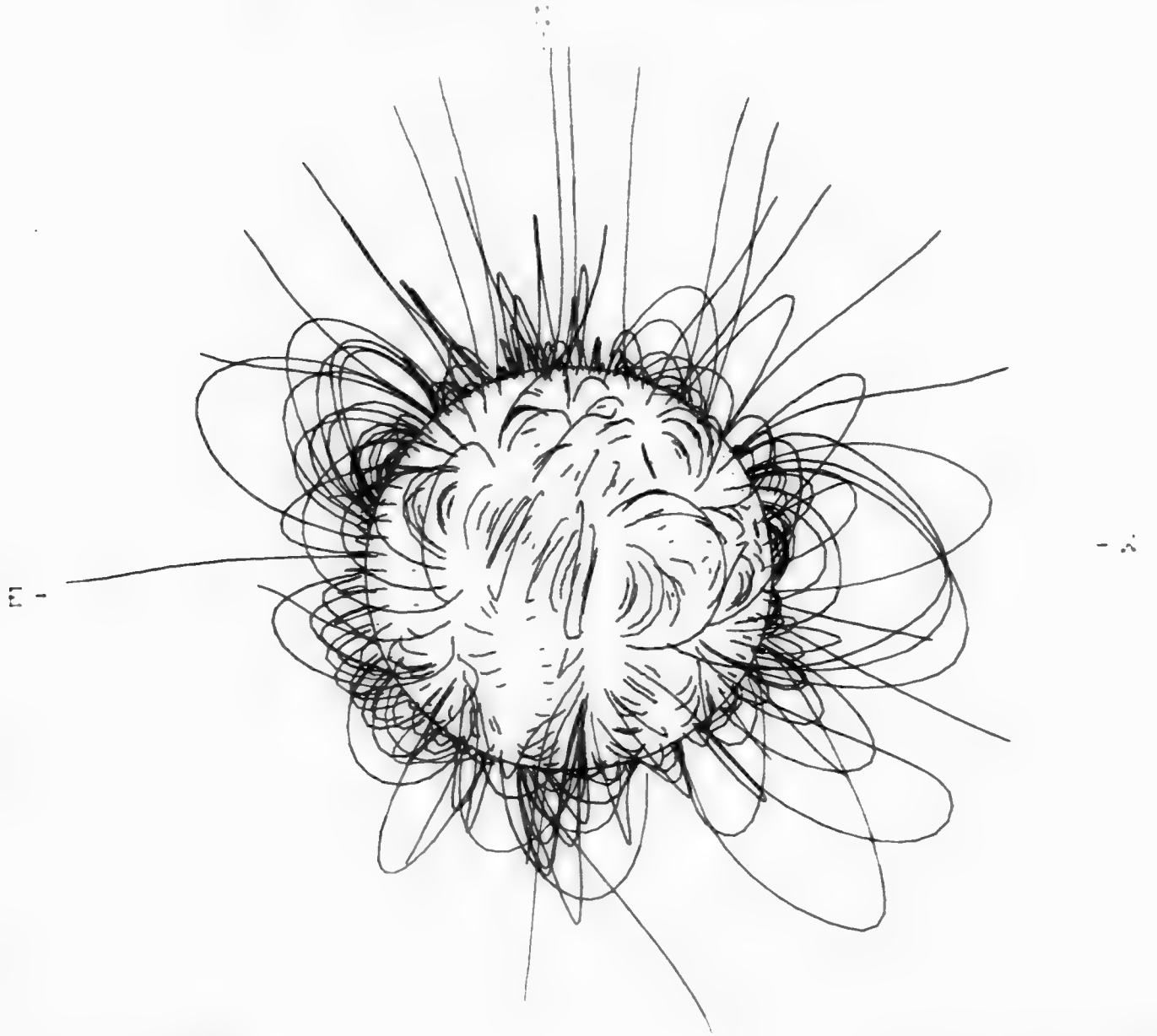
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



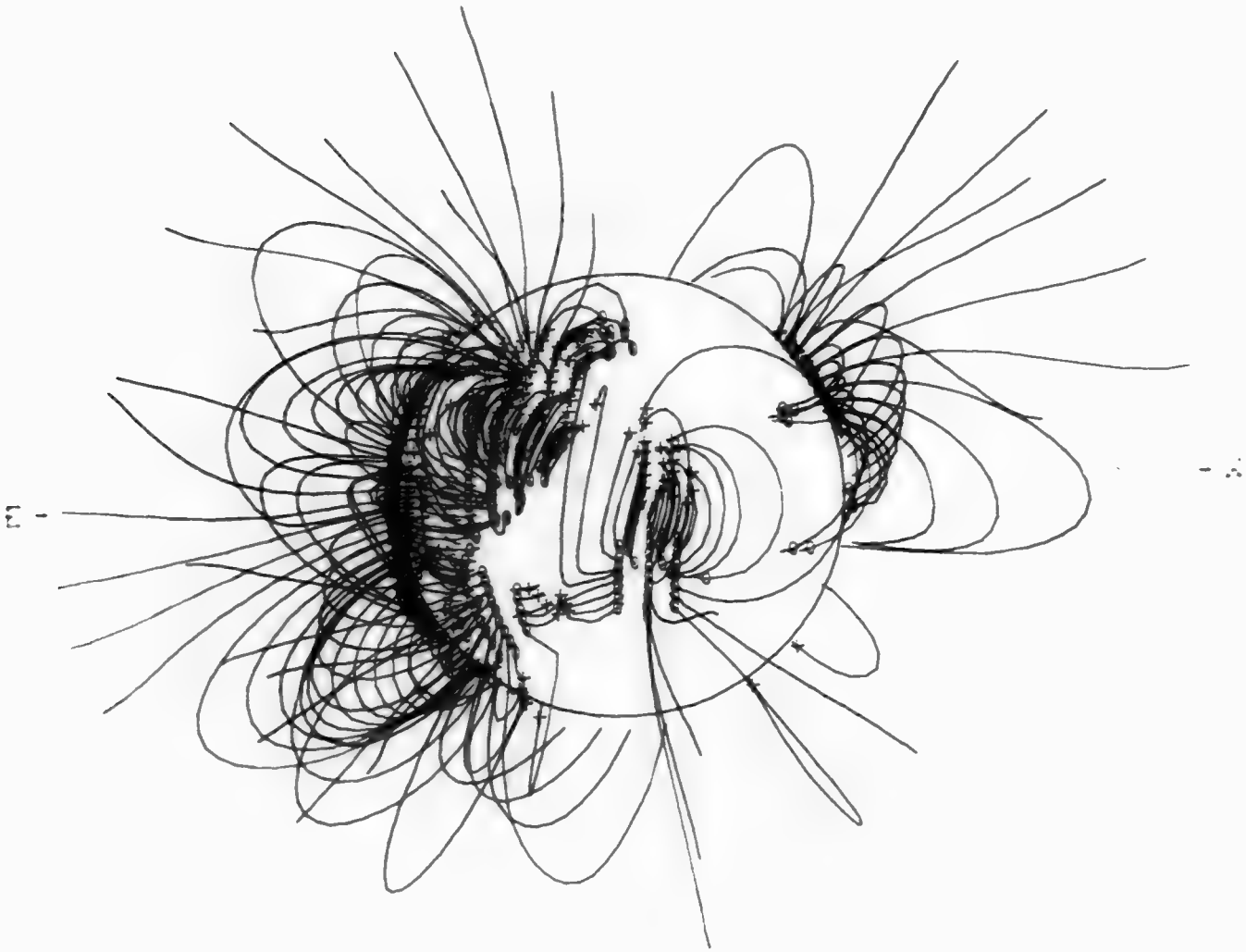
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

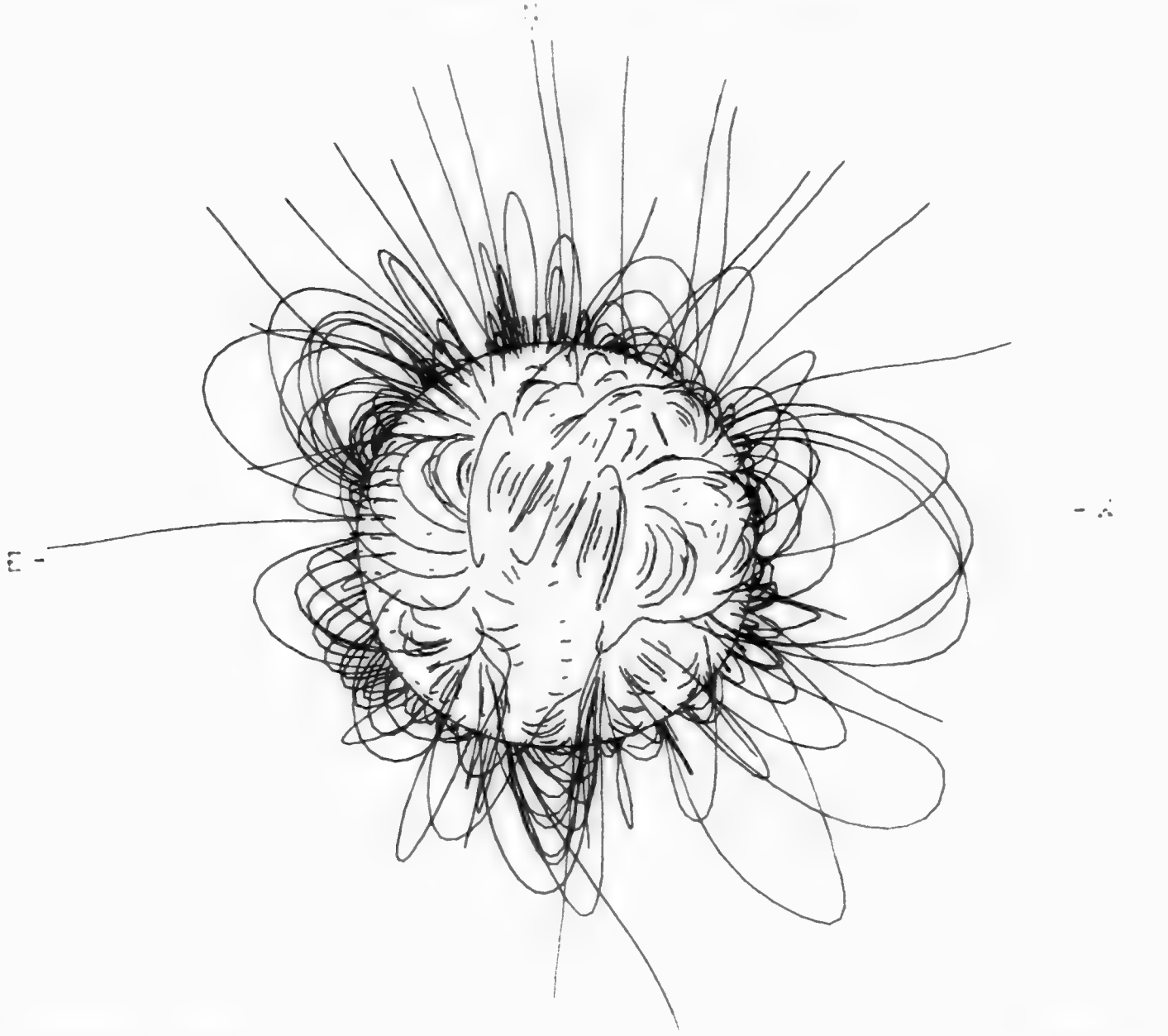


HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

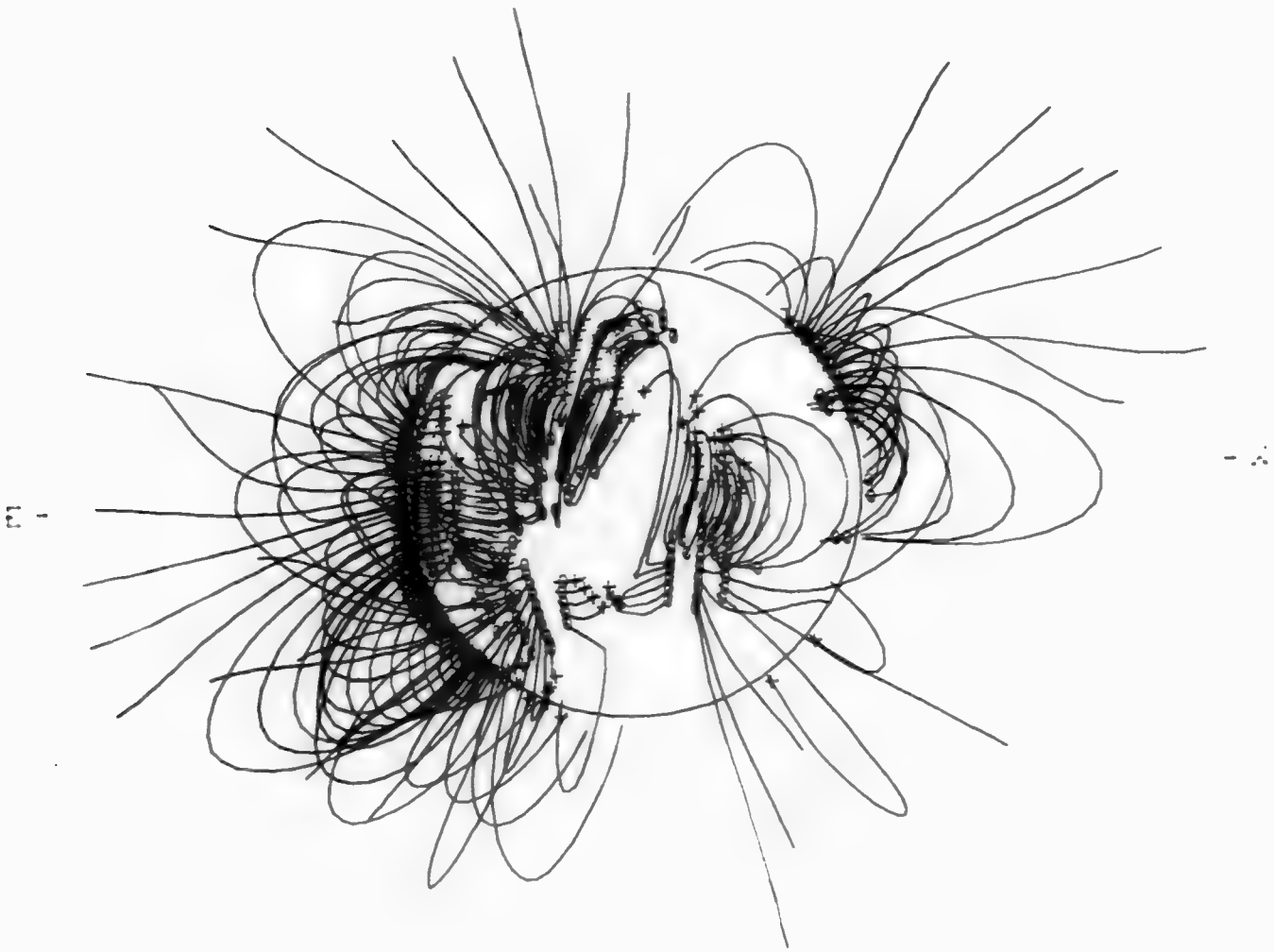


S

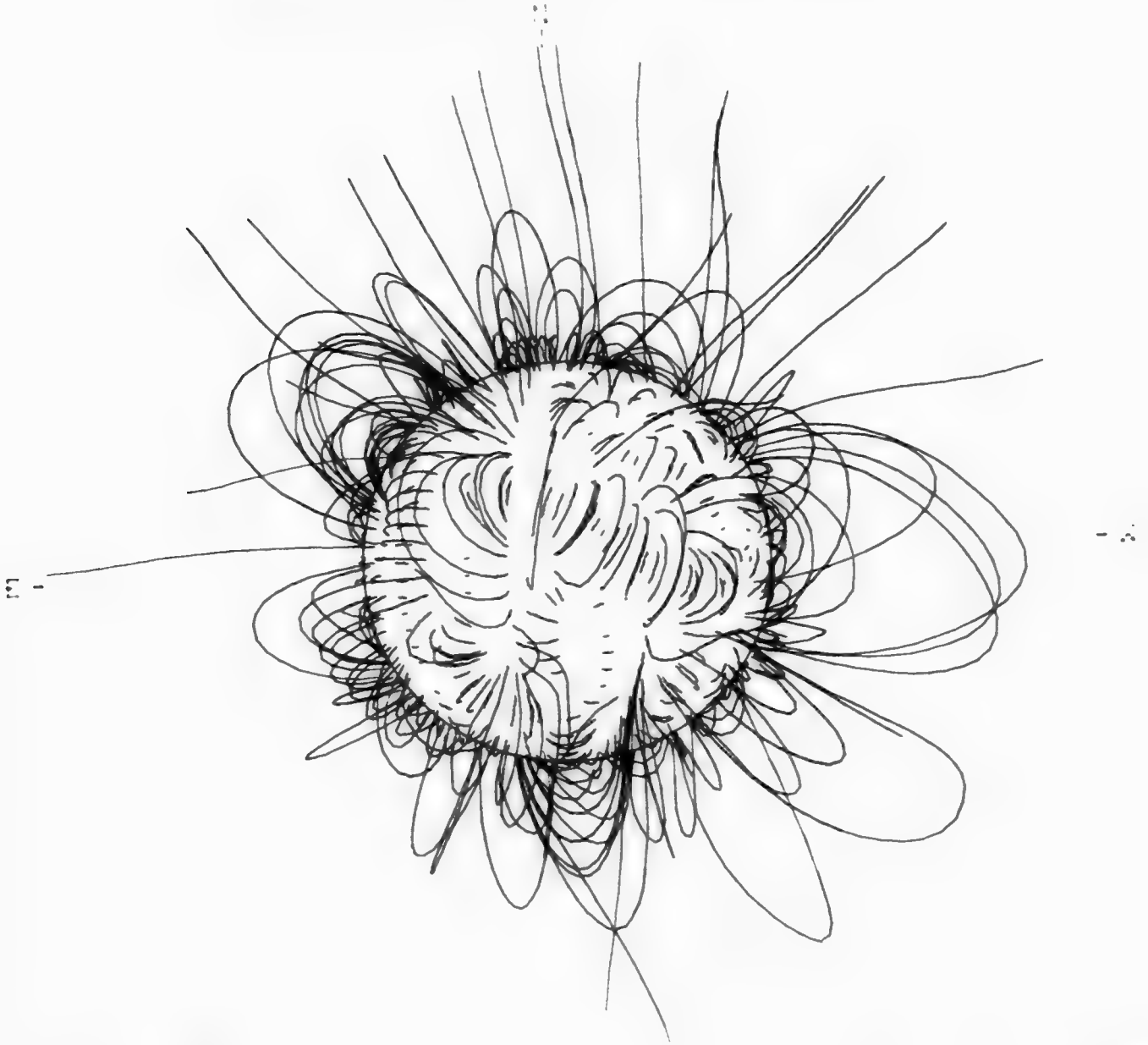
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



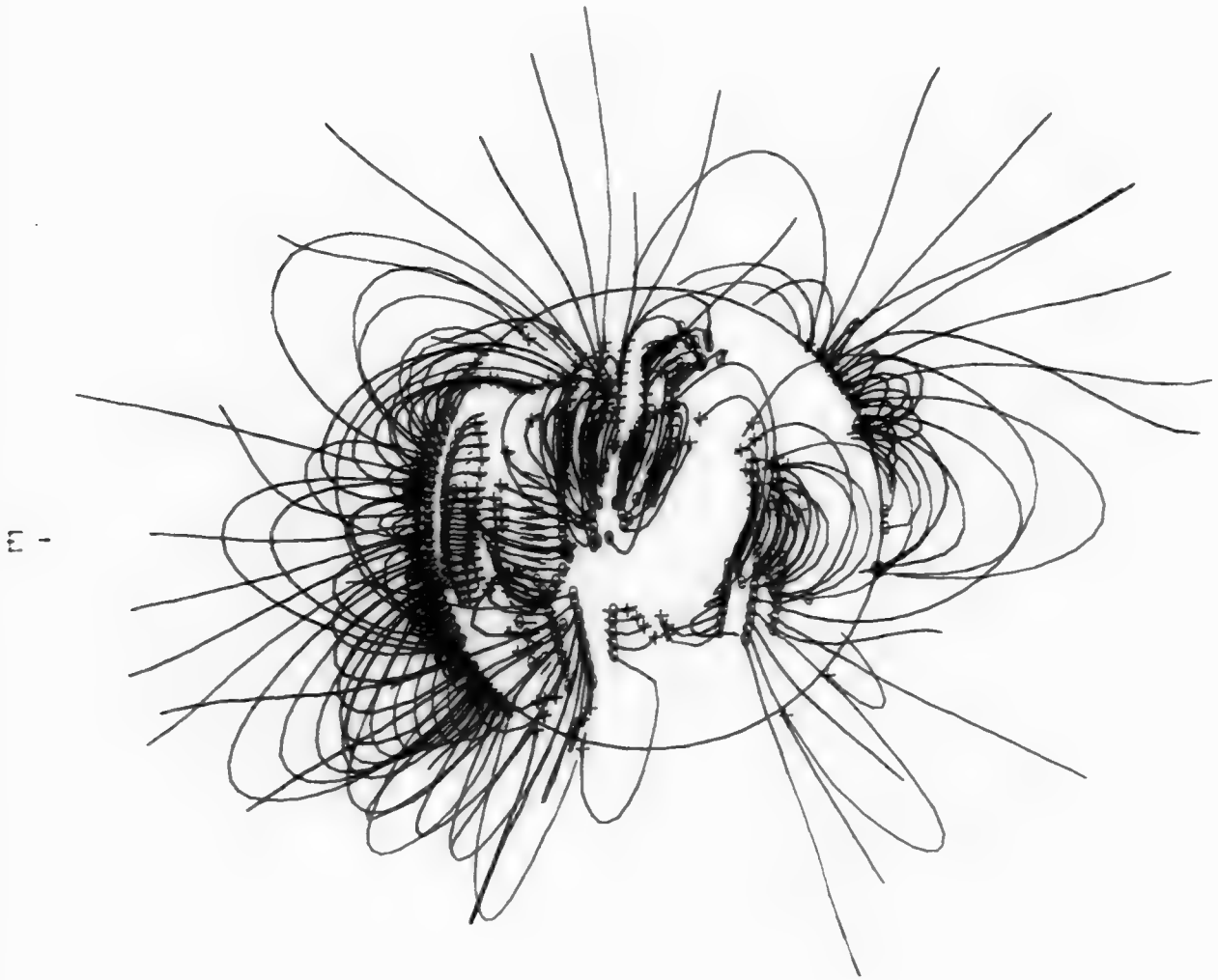
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



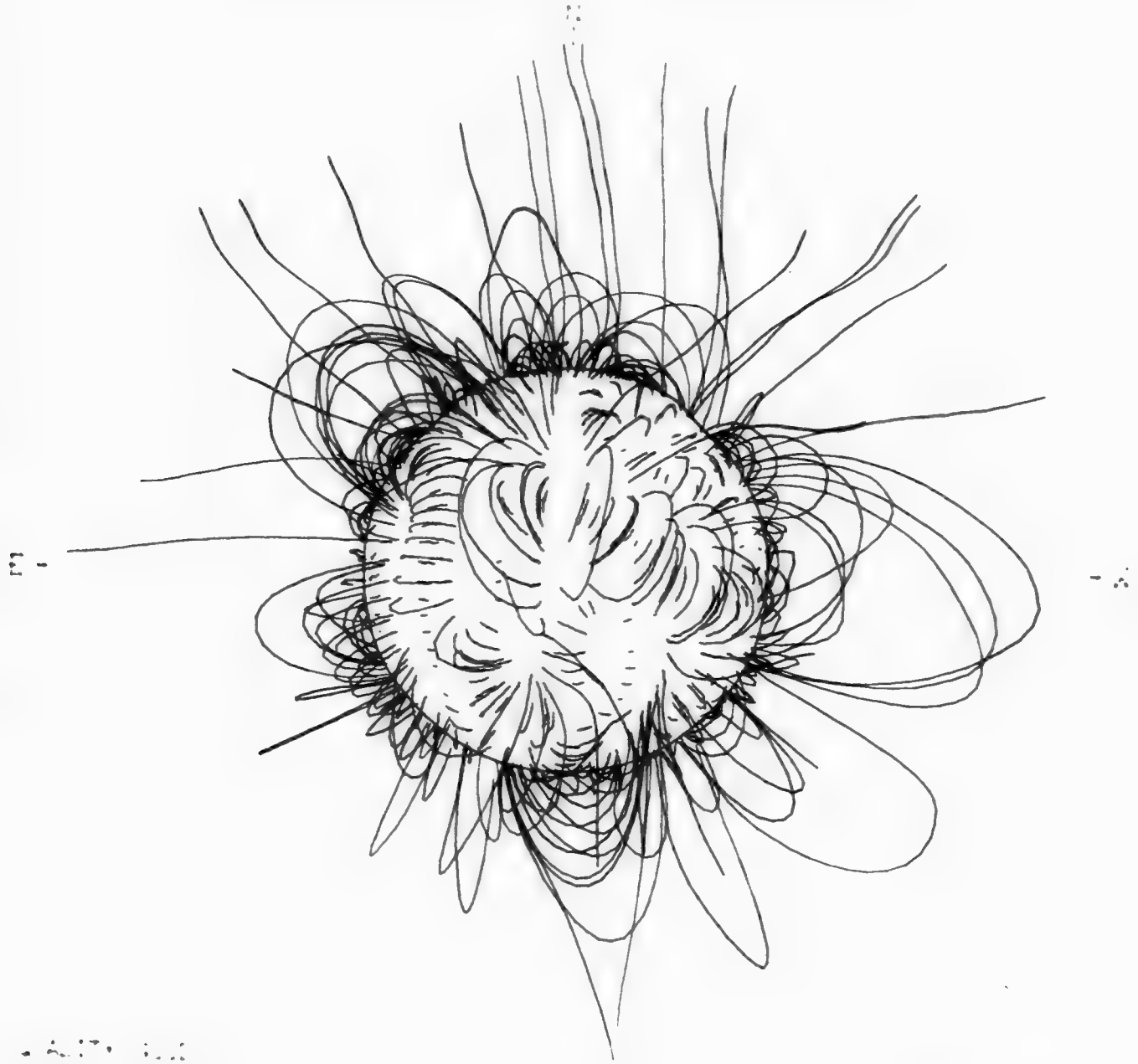
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



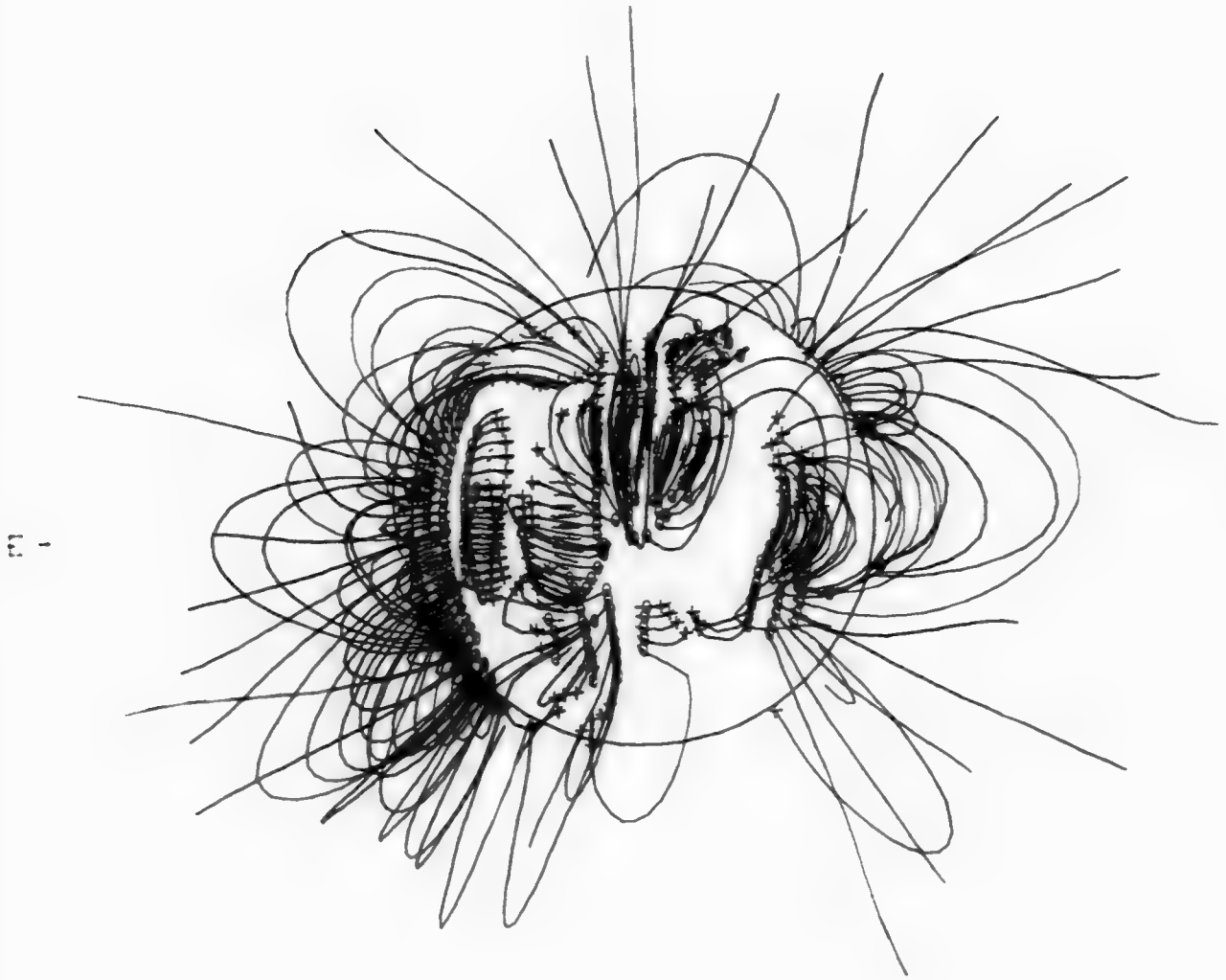
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



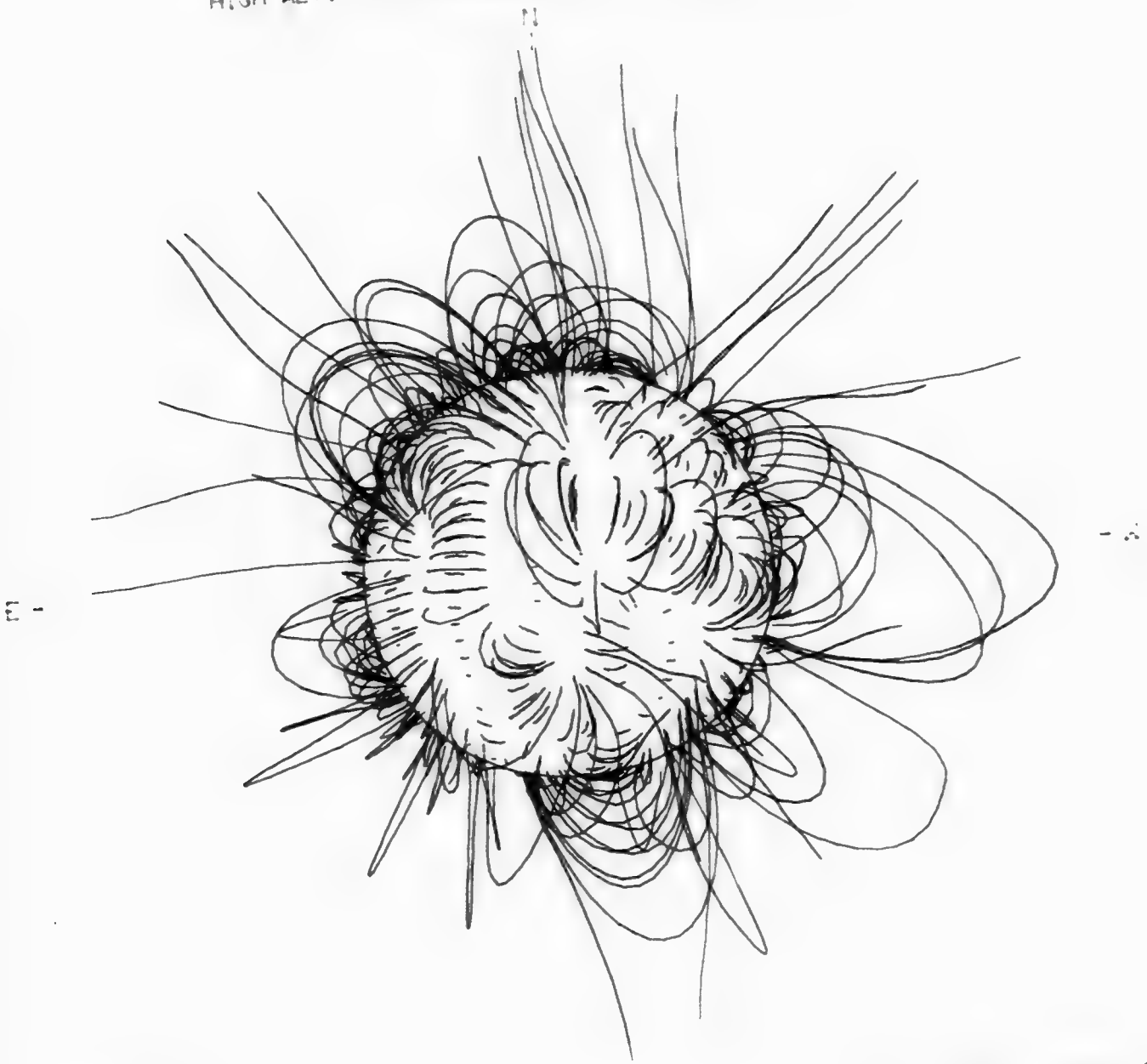
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



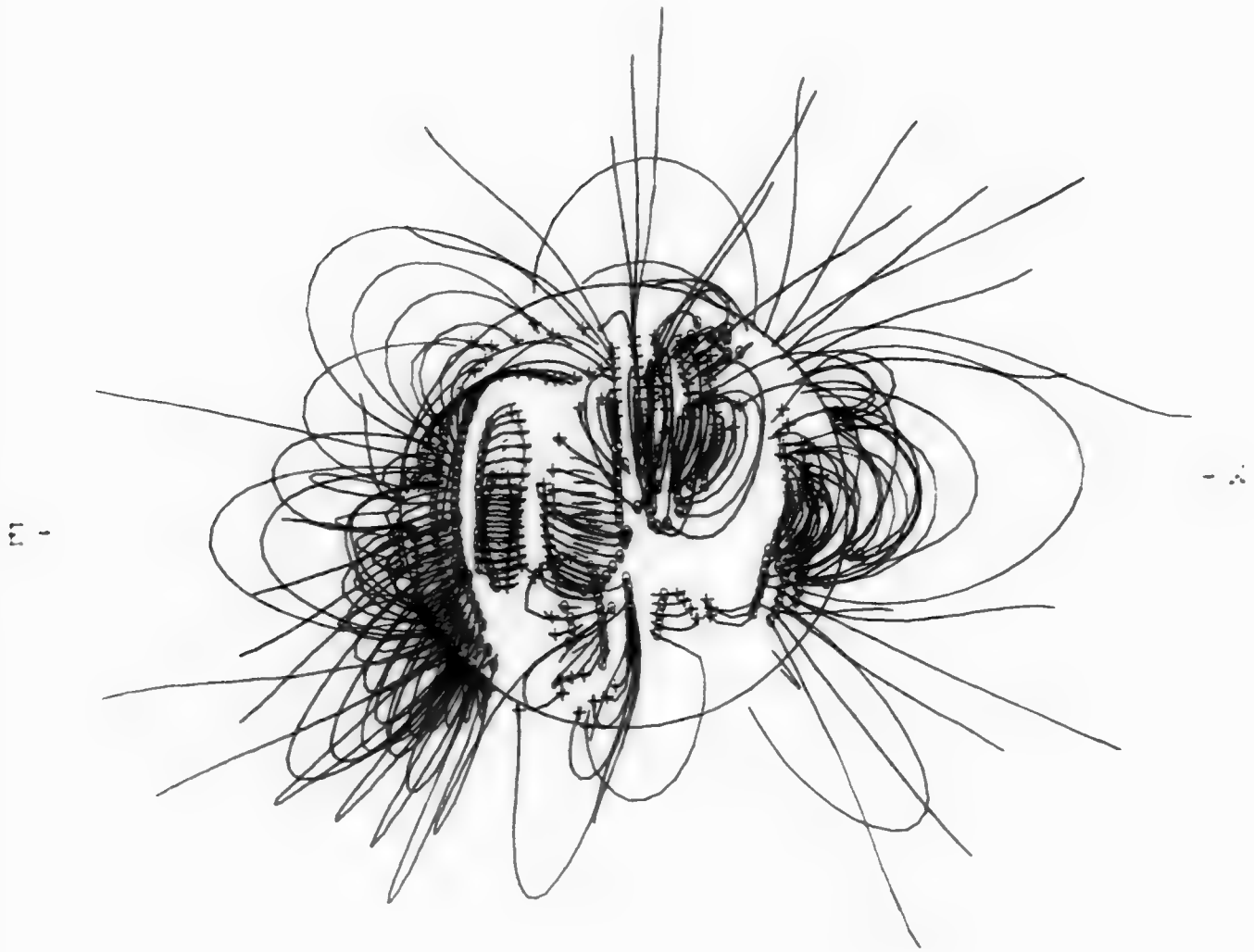
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

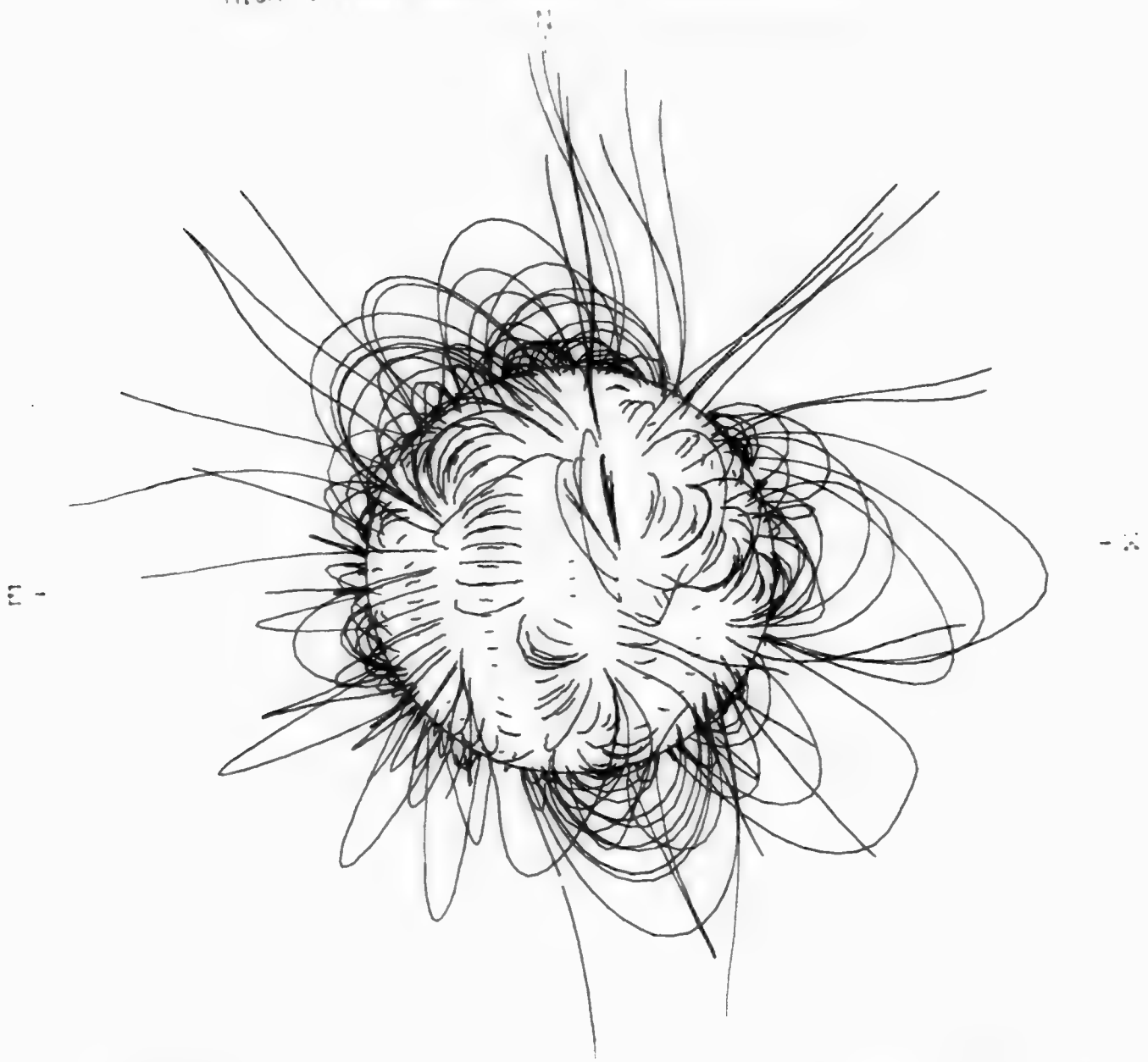


HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

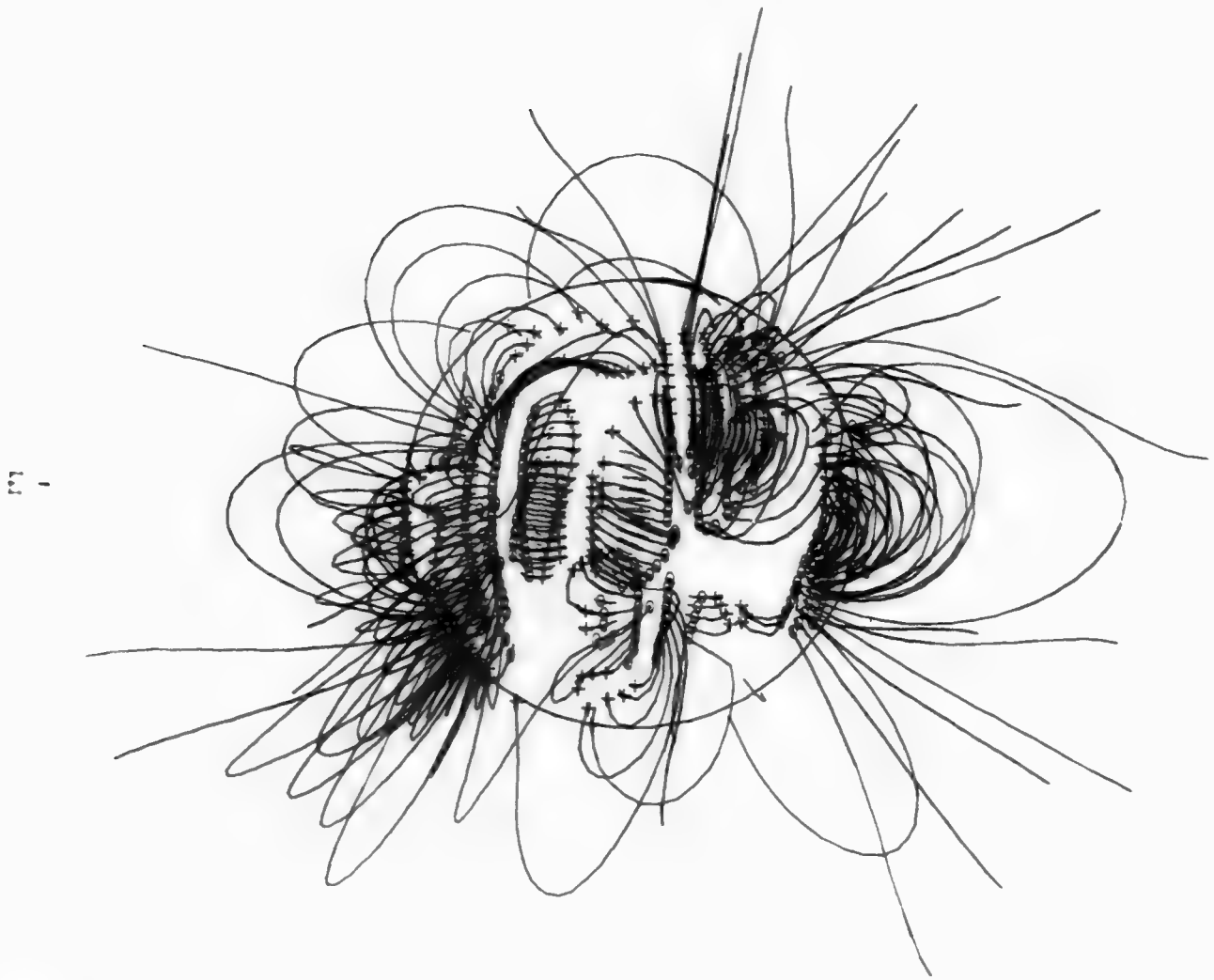


25.6 SEP

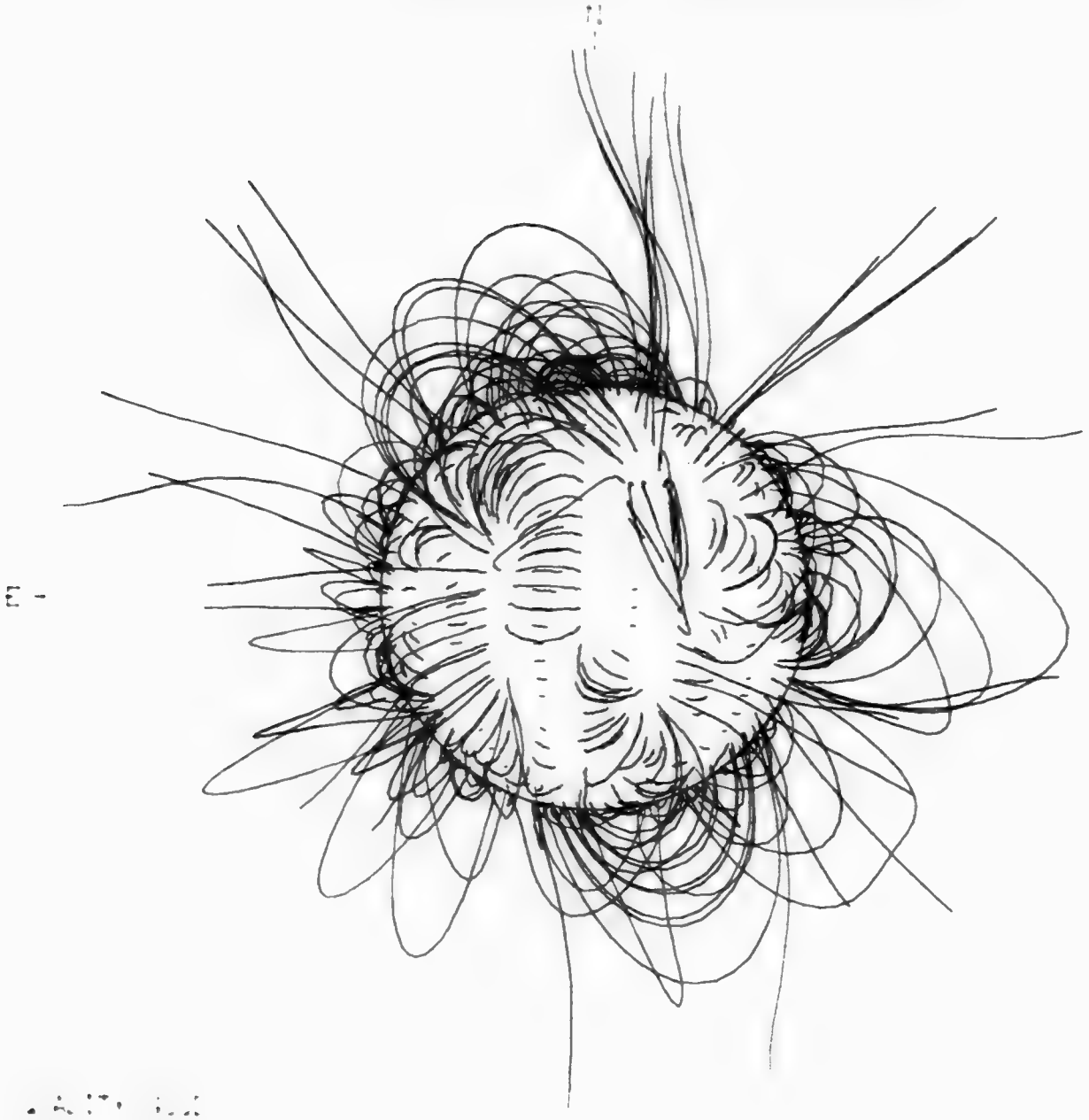
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



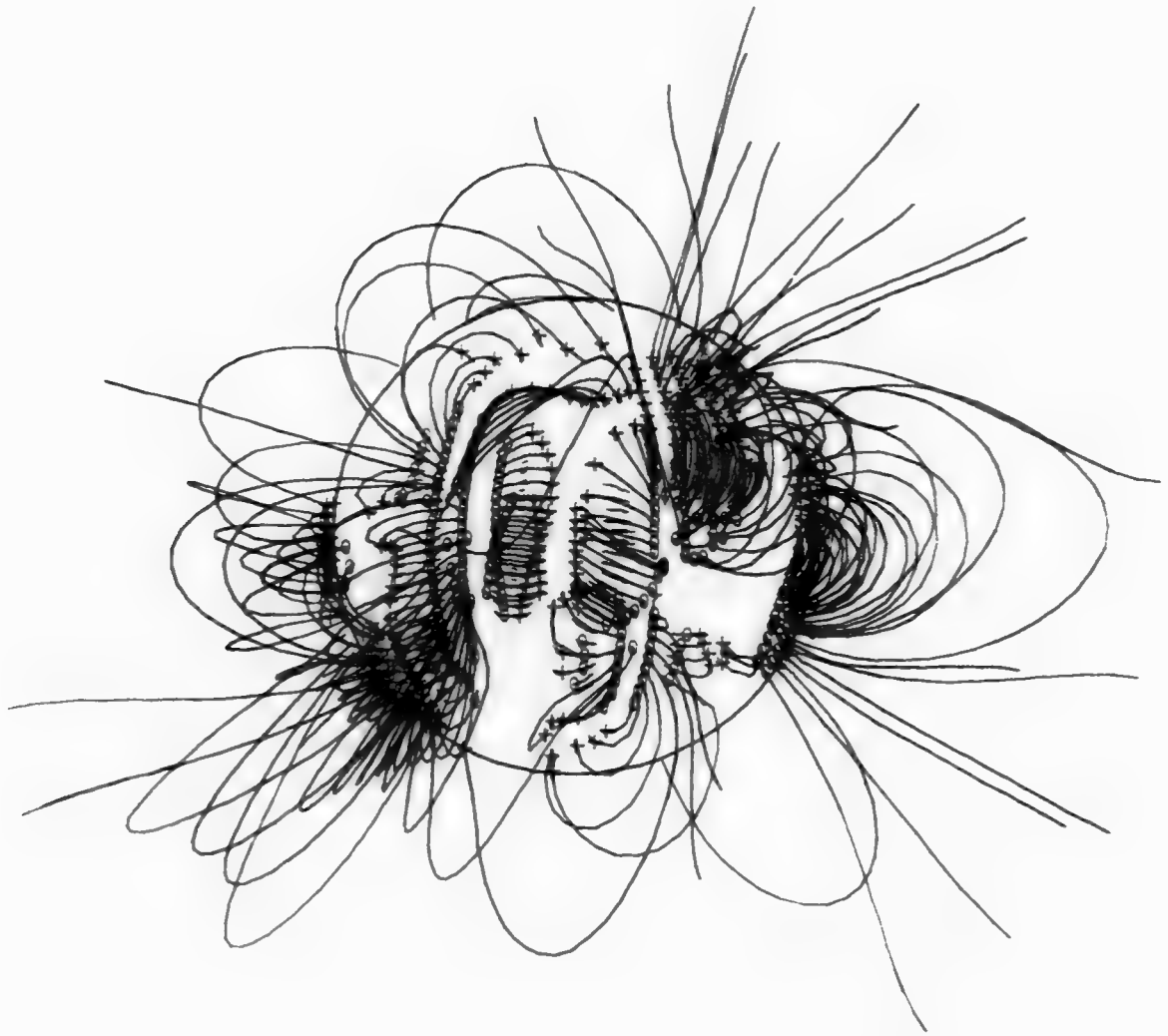
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



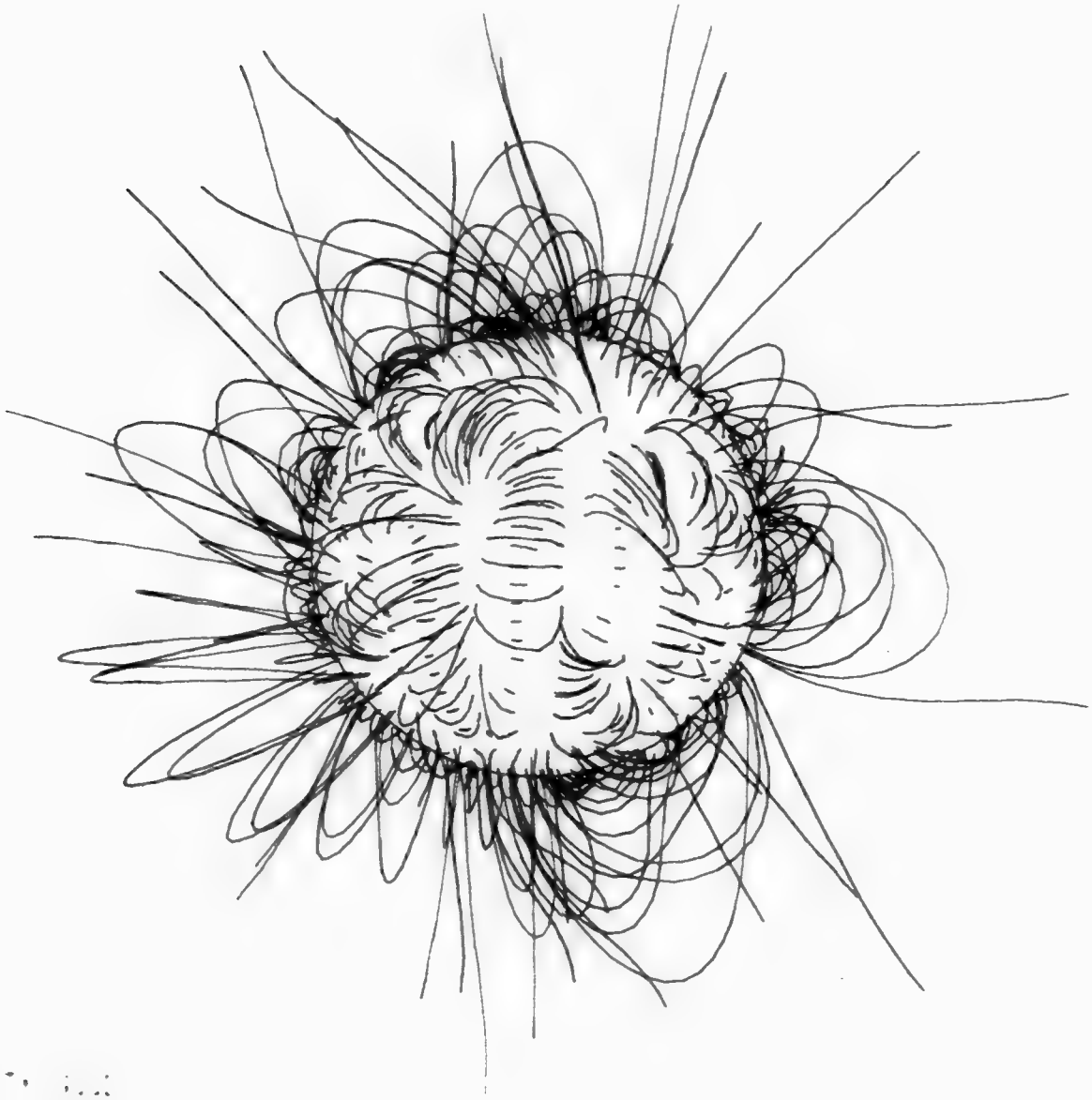
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



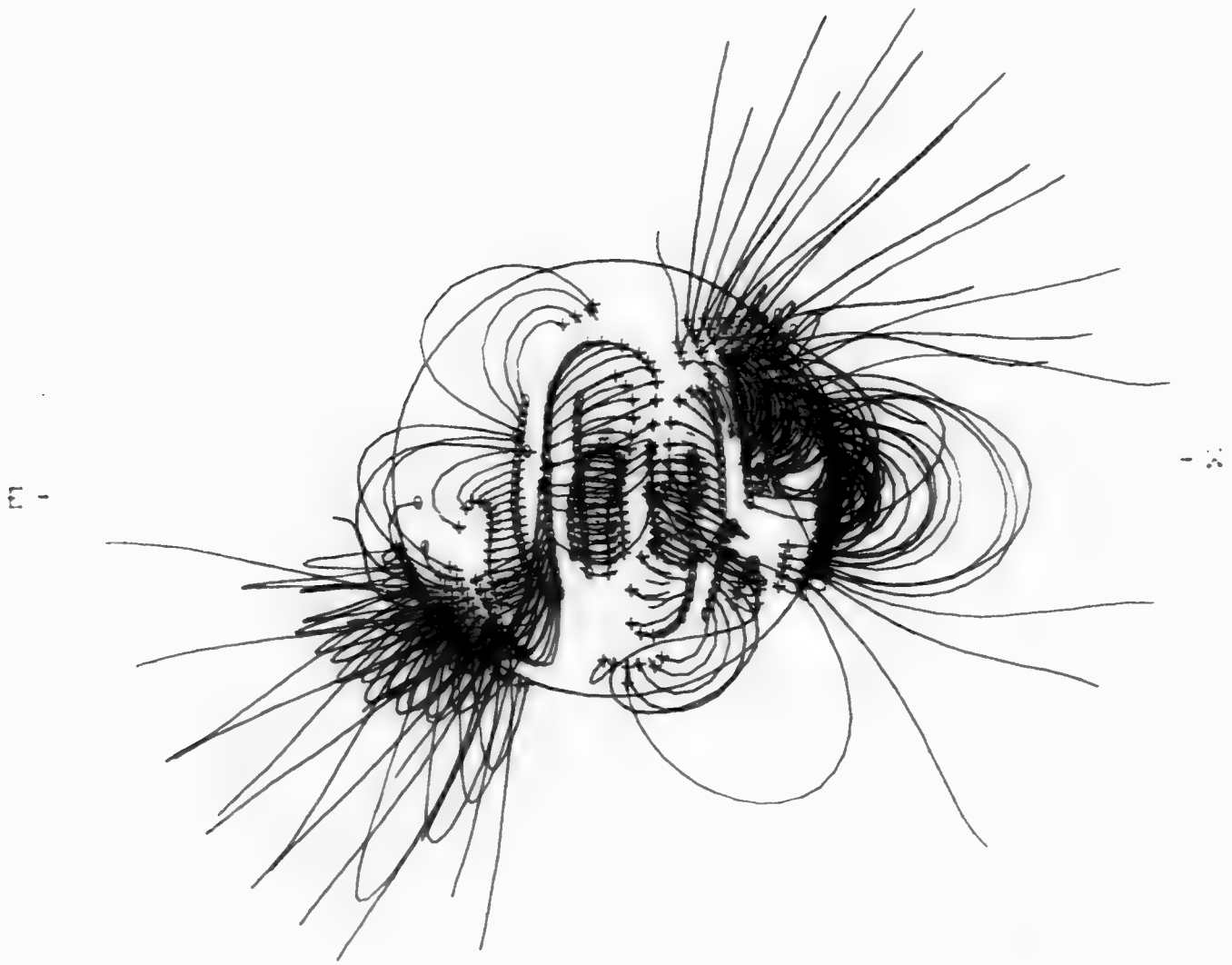
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



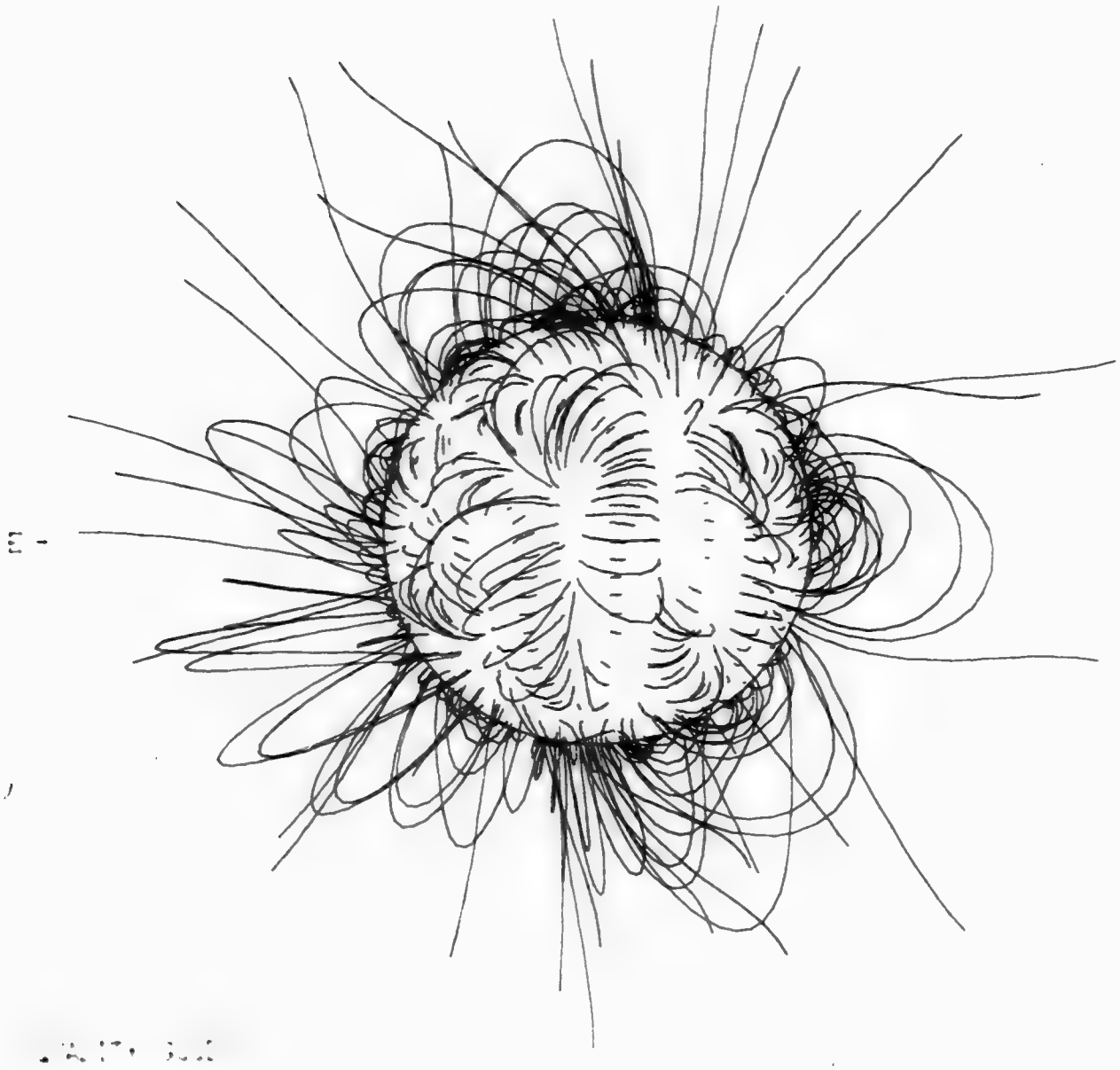
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

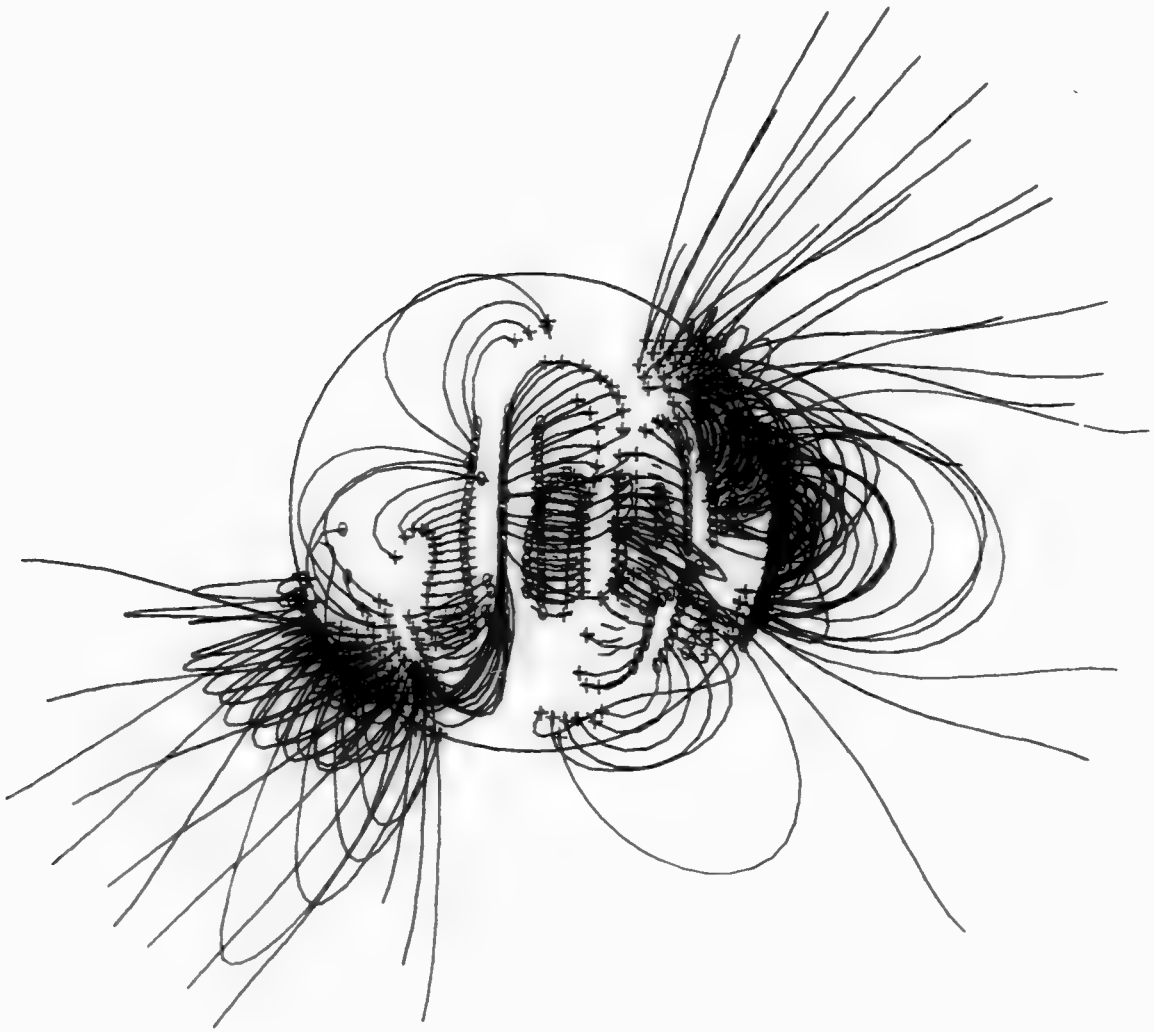


HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N

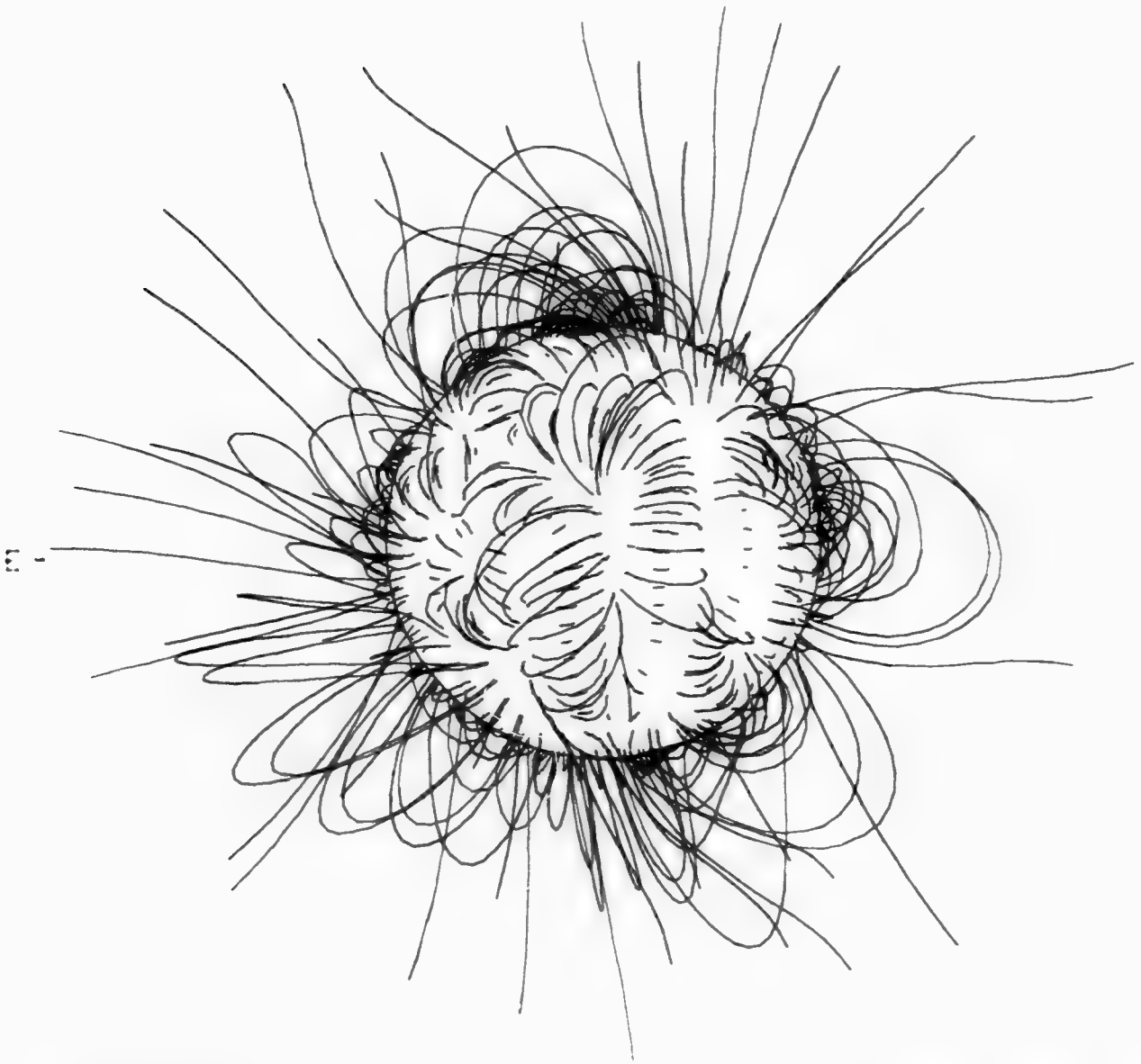
E -

- W

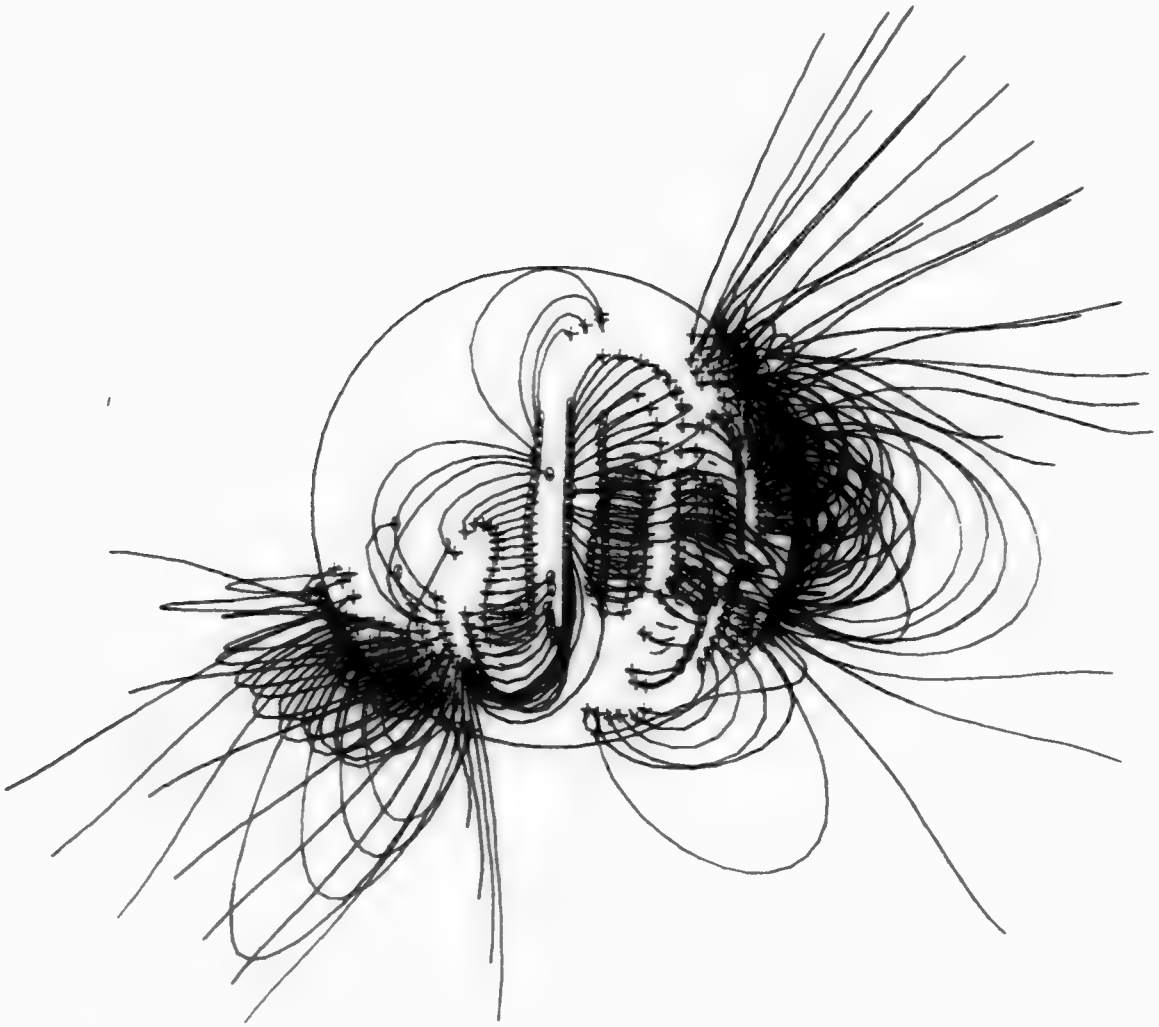


S

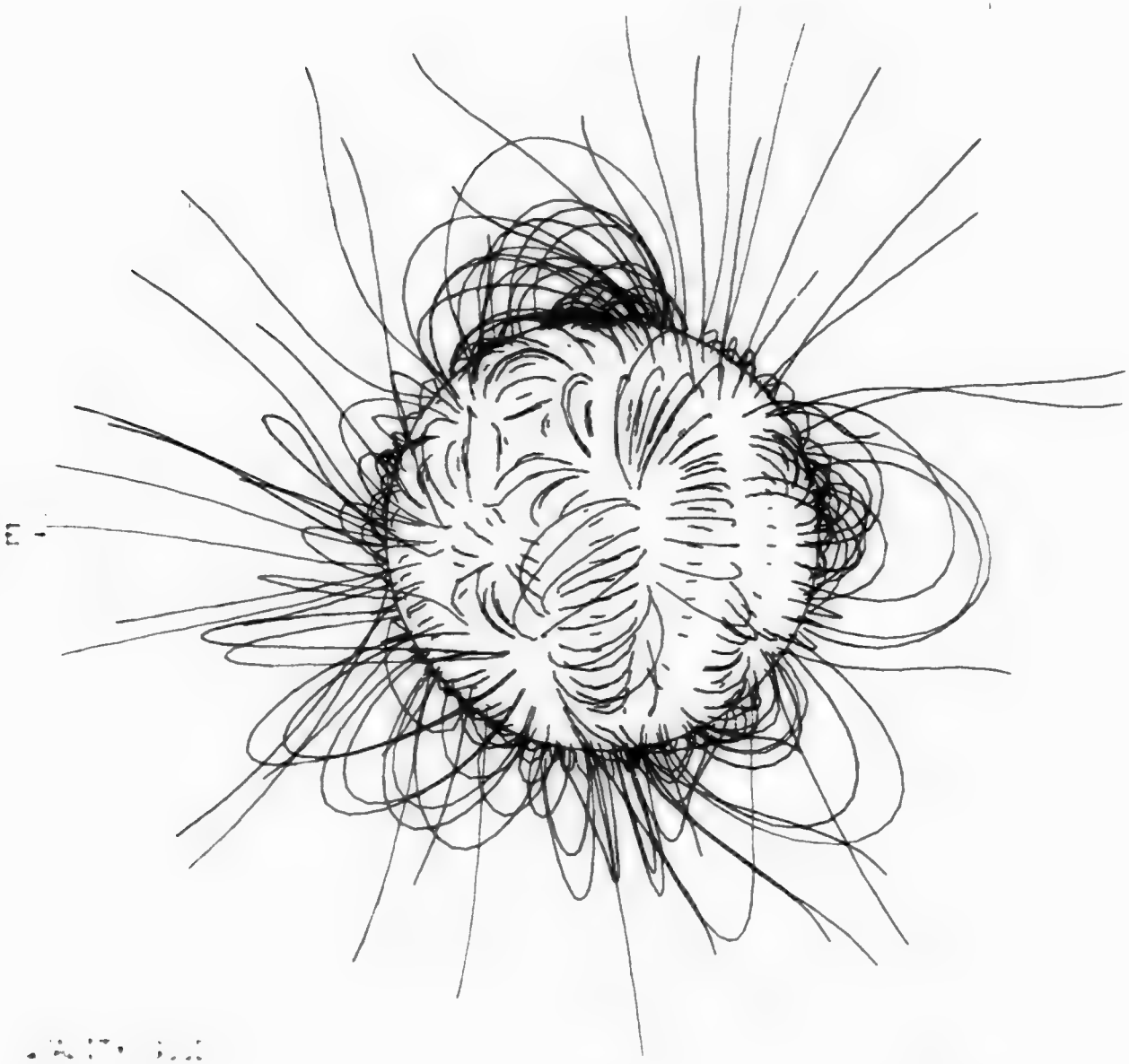
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



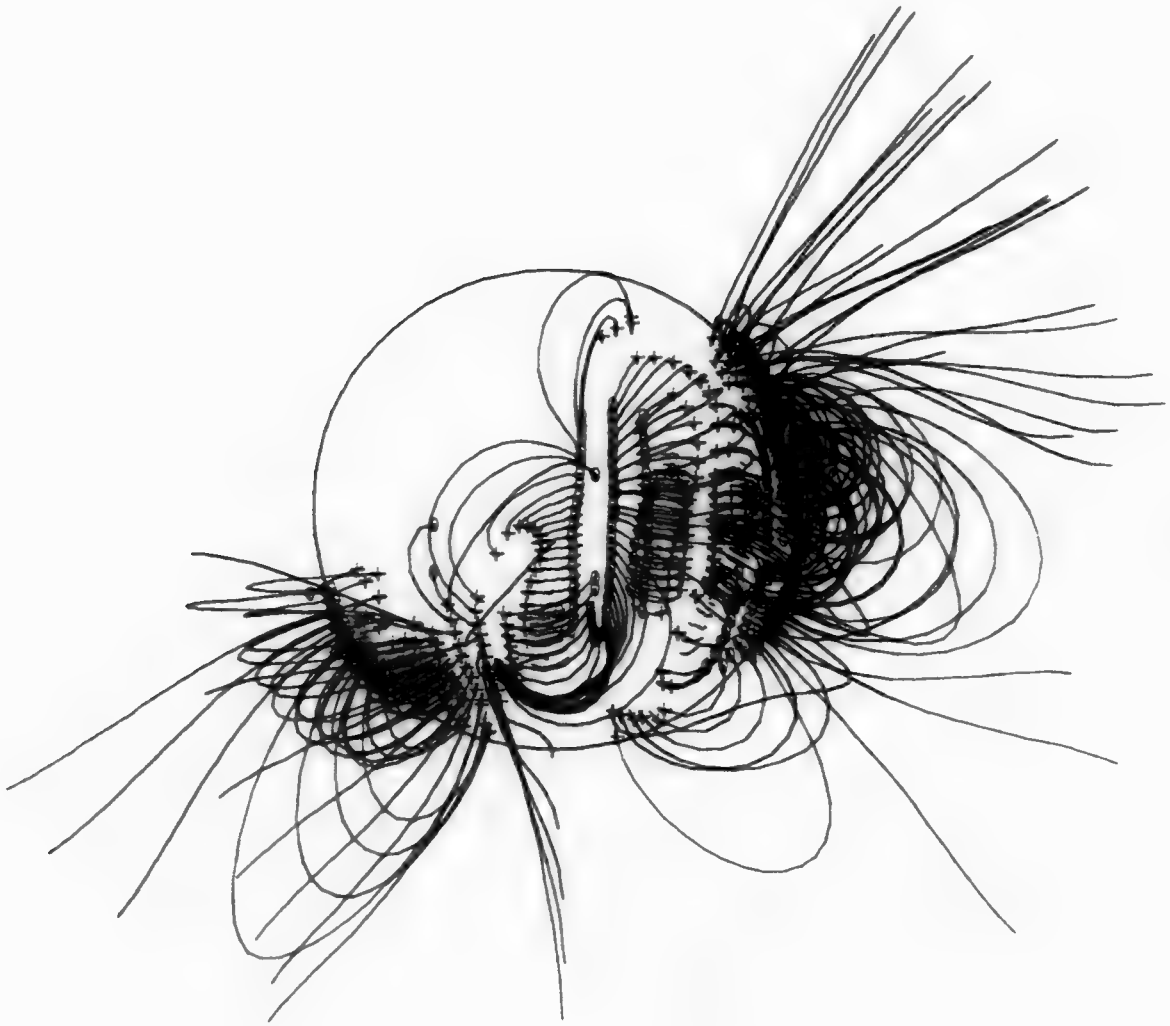
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N

E -

- W

S

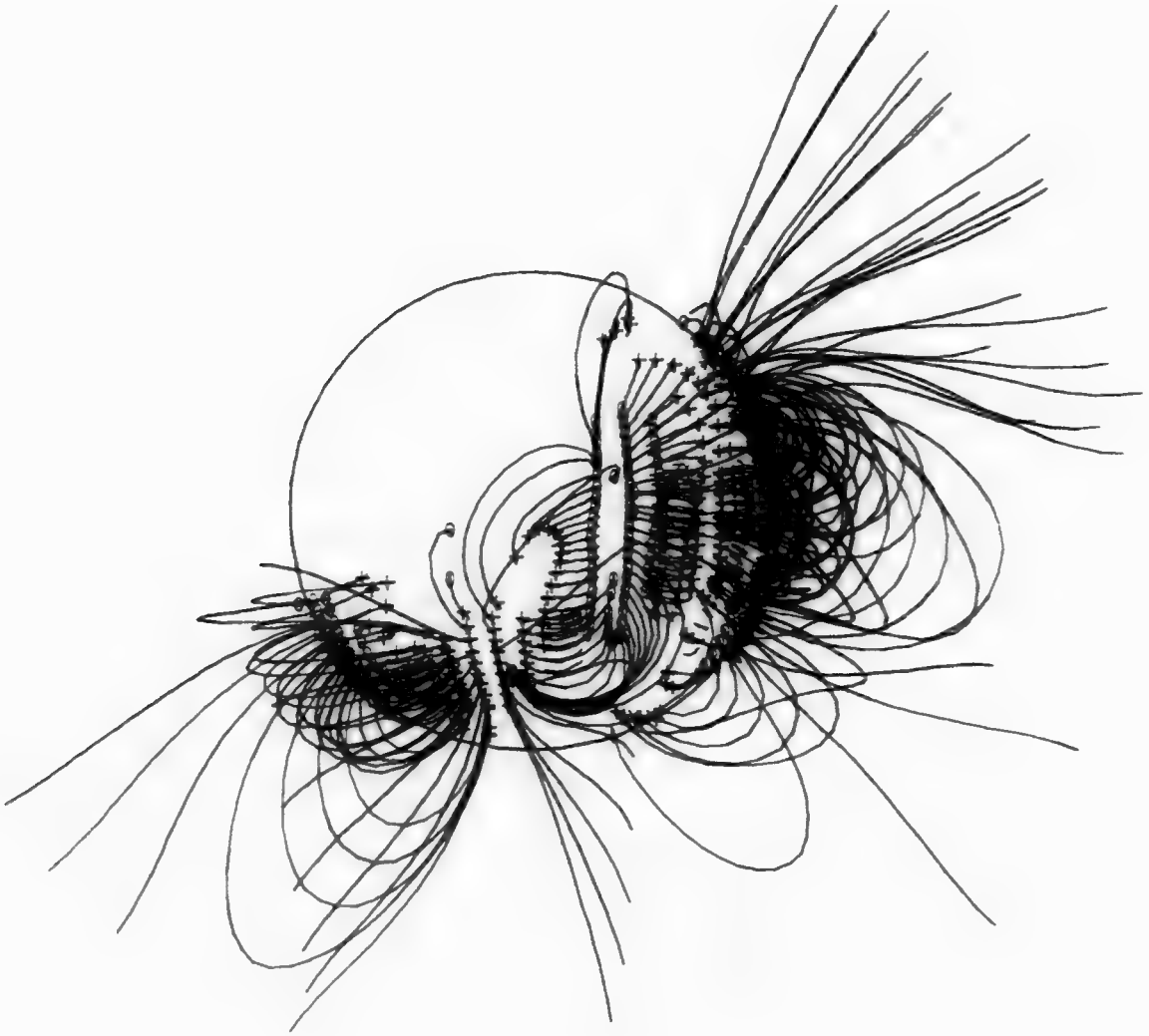
QUALITY GOOD

POLES DIRECT

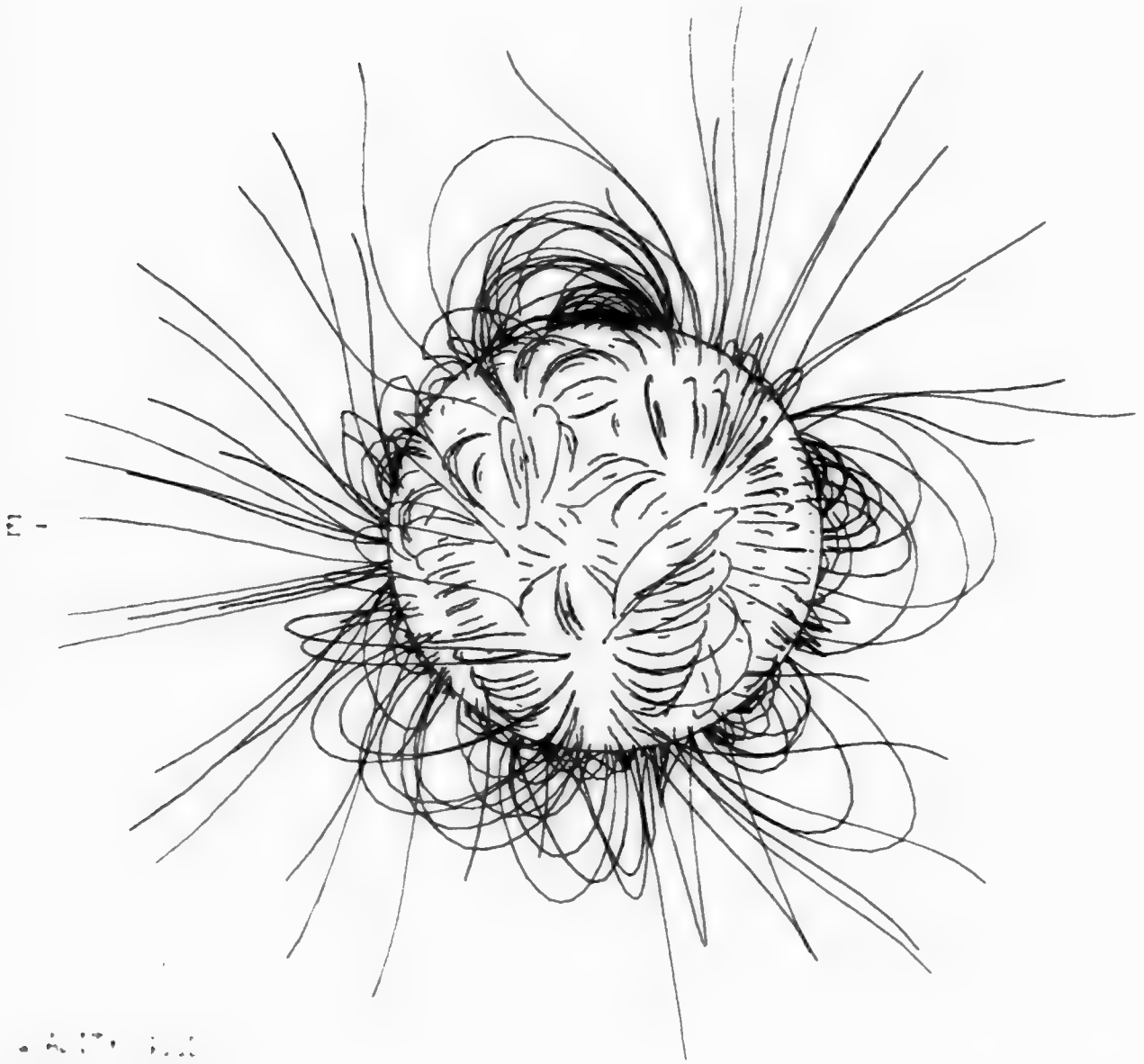
DATA WINDOW 1552.47

ROT. 1552 LONG. 40°

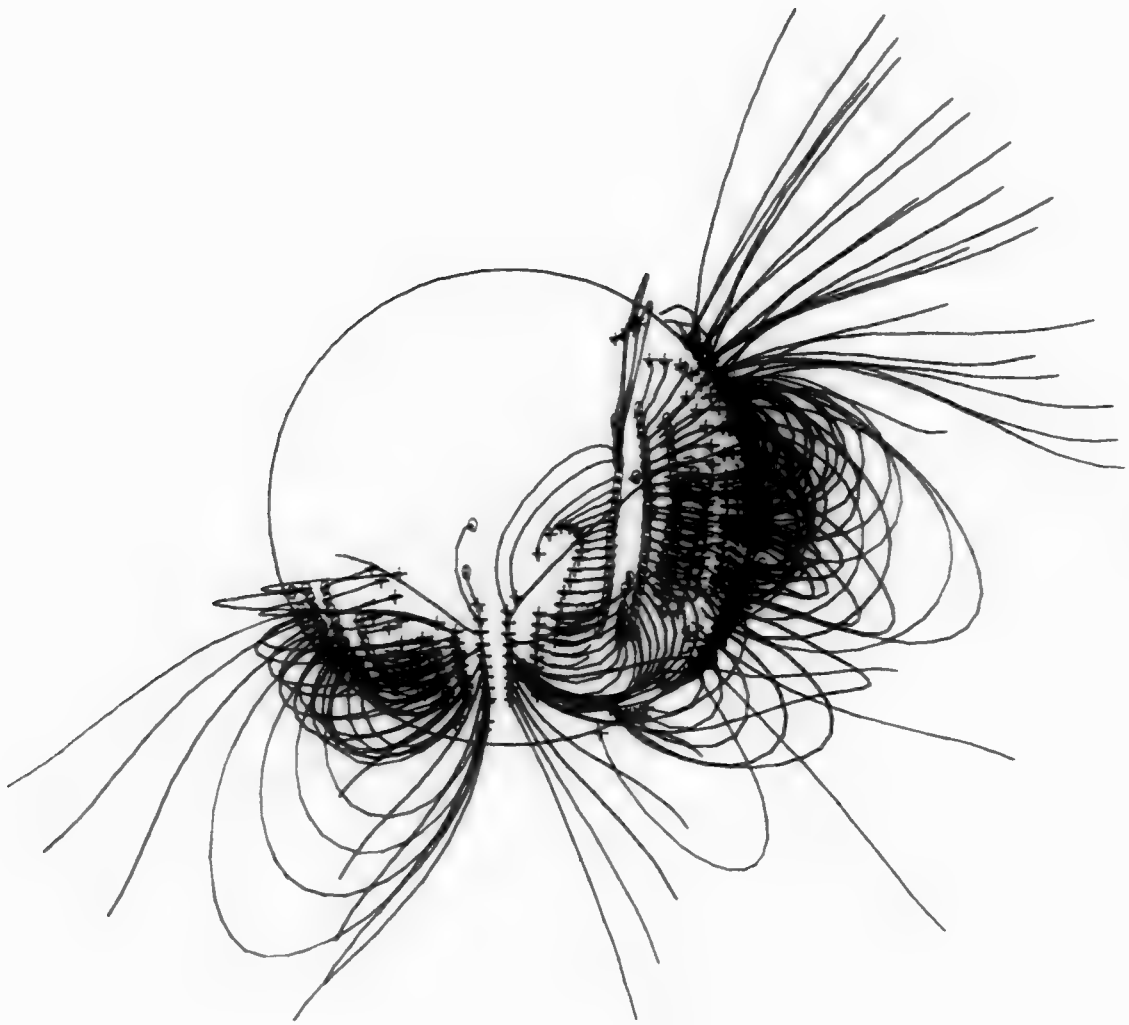
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



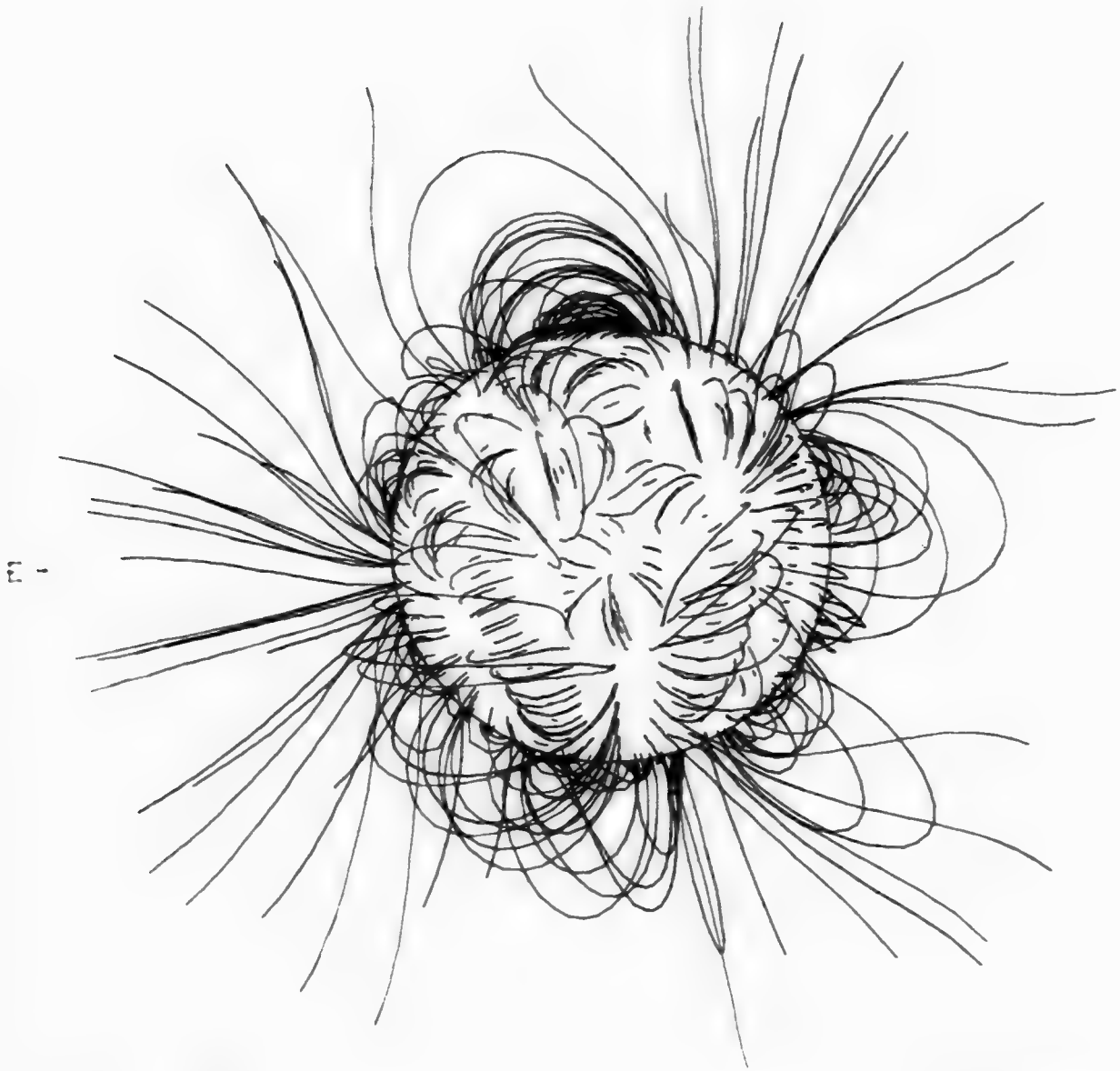
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



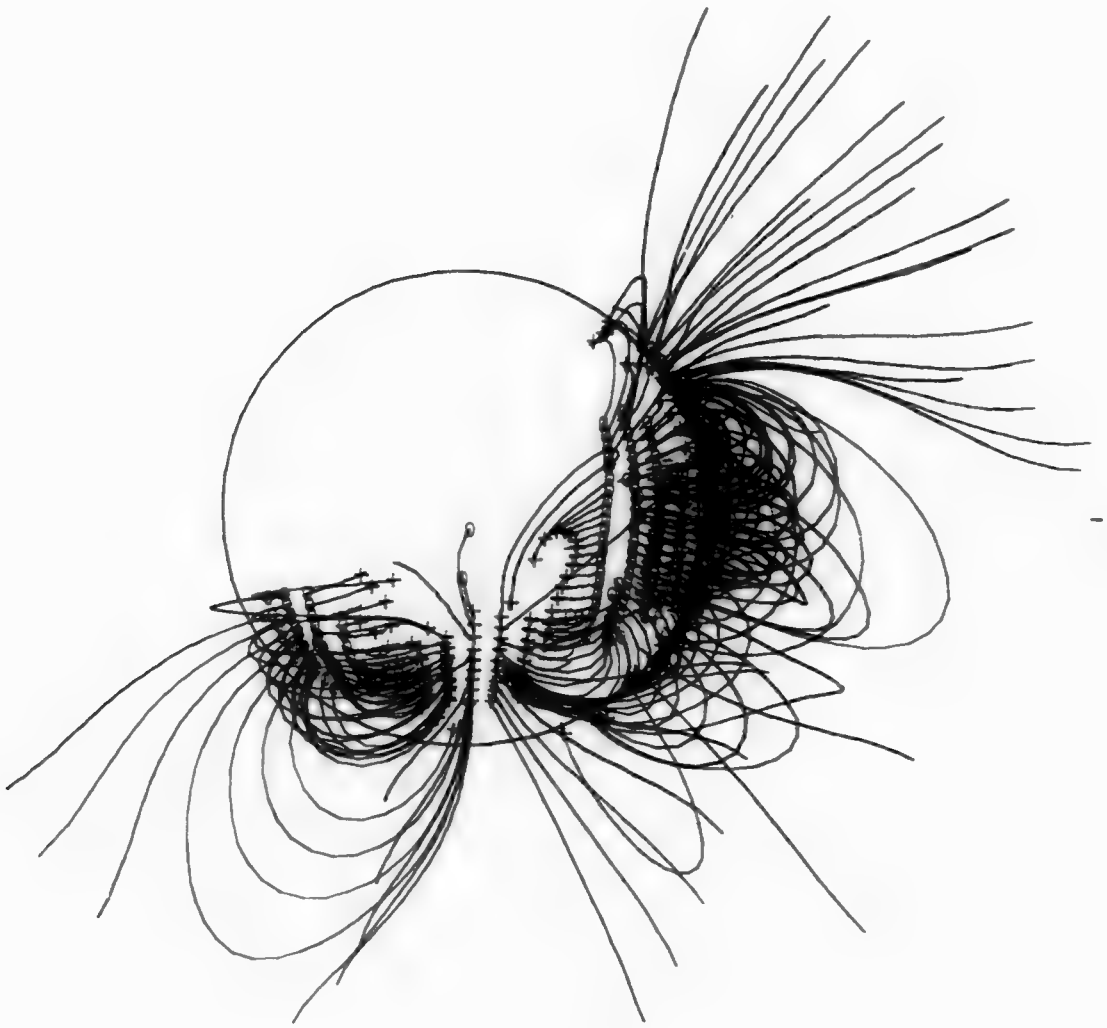
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



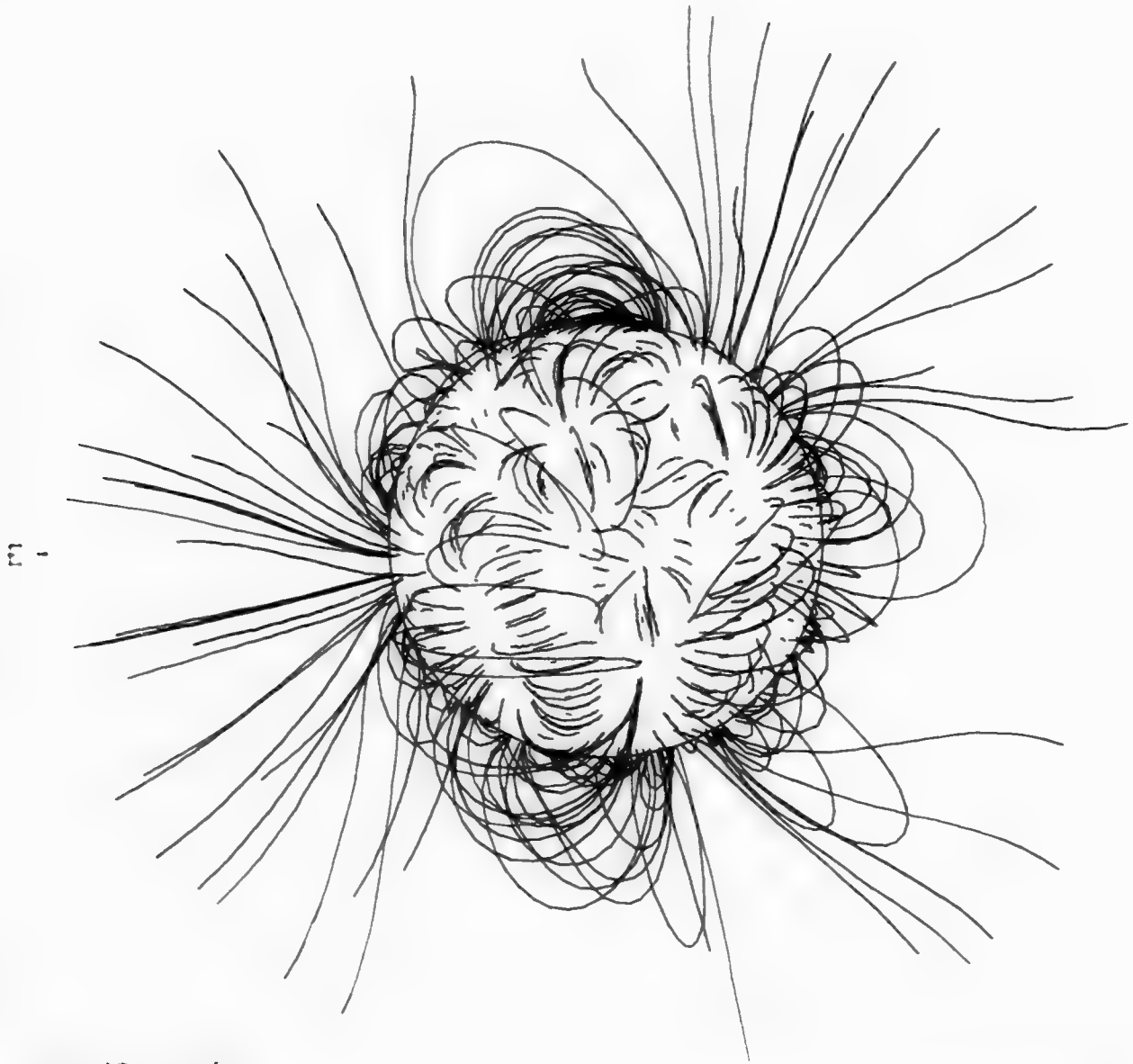
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



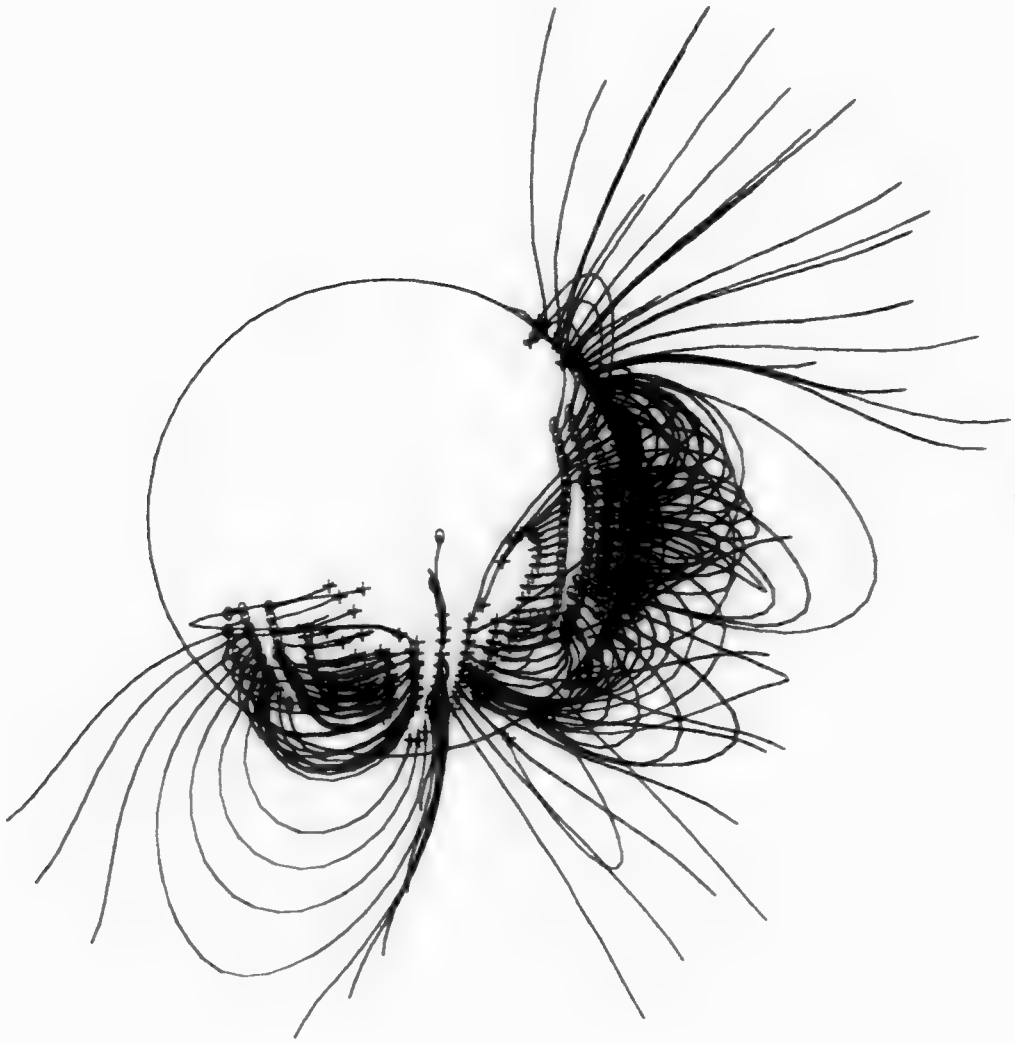
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

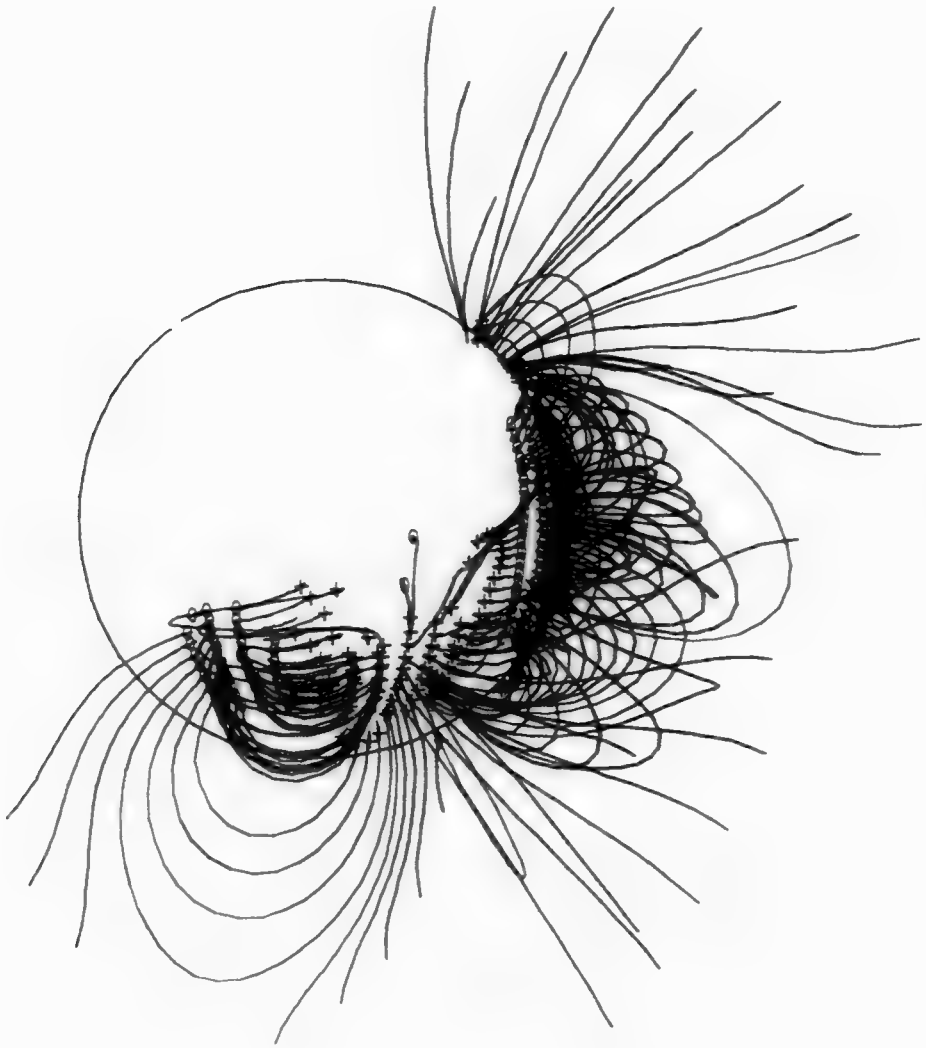


HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

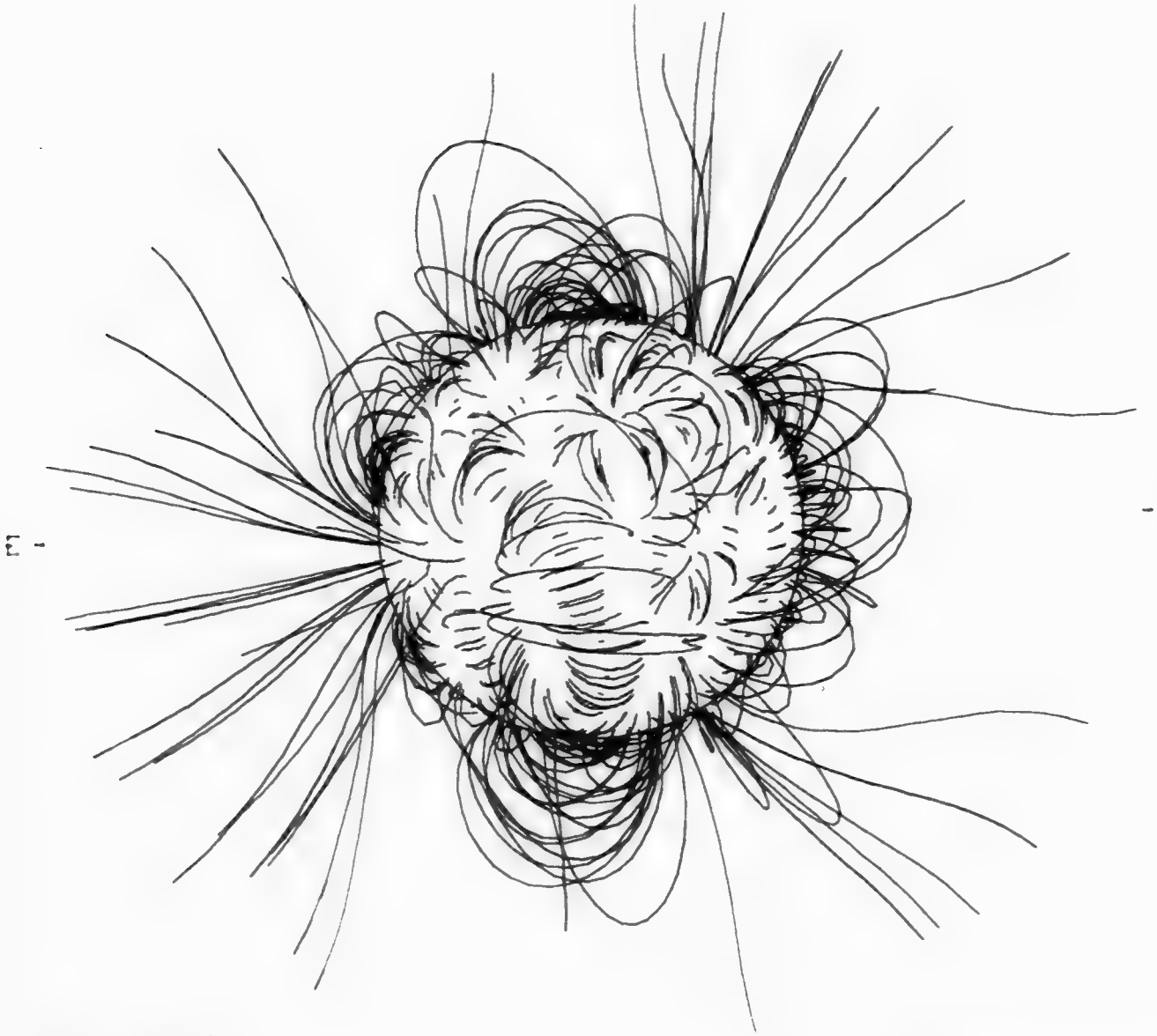


HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

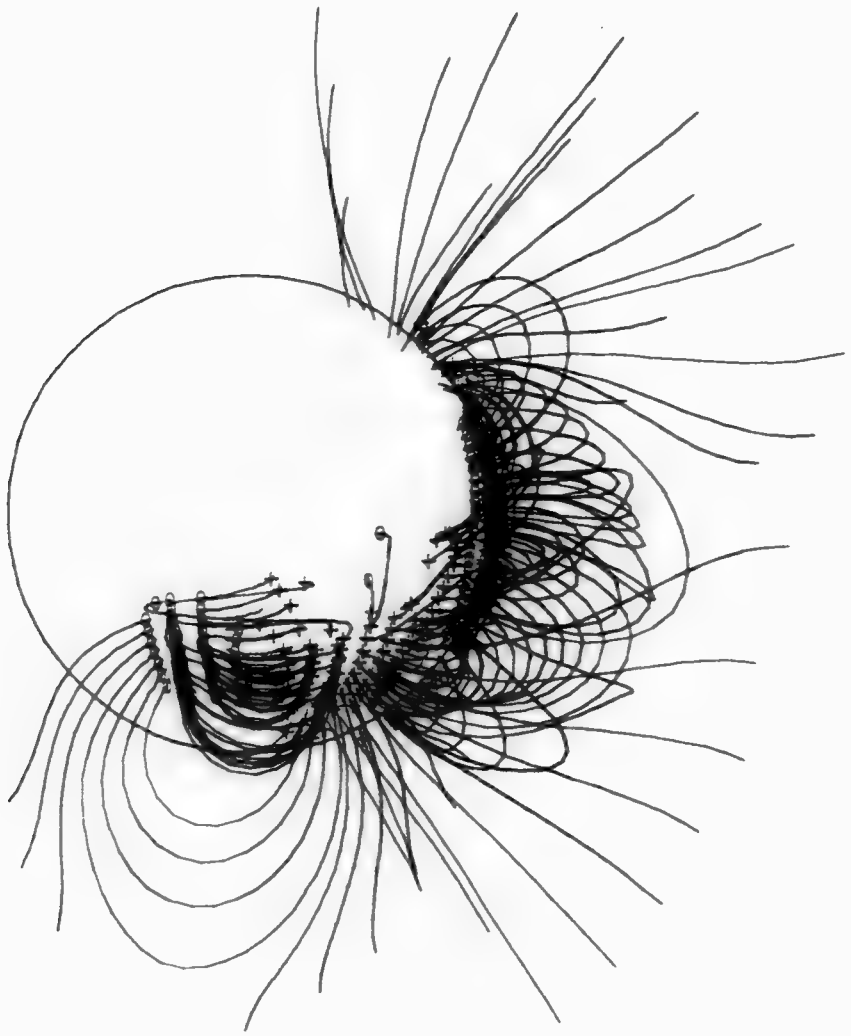
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

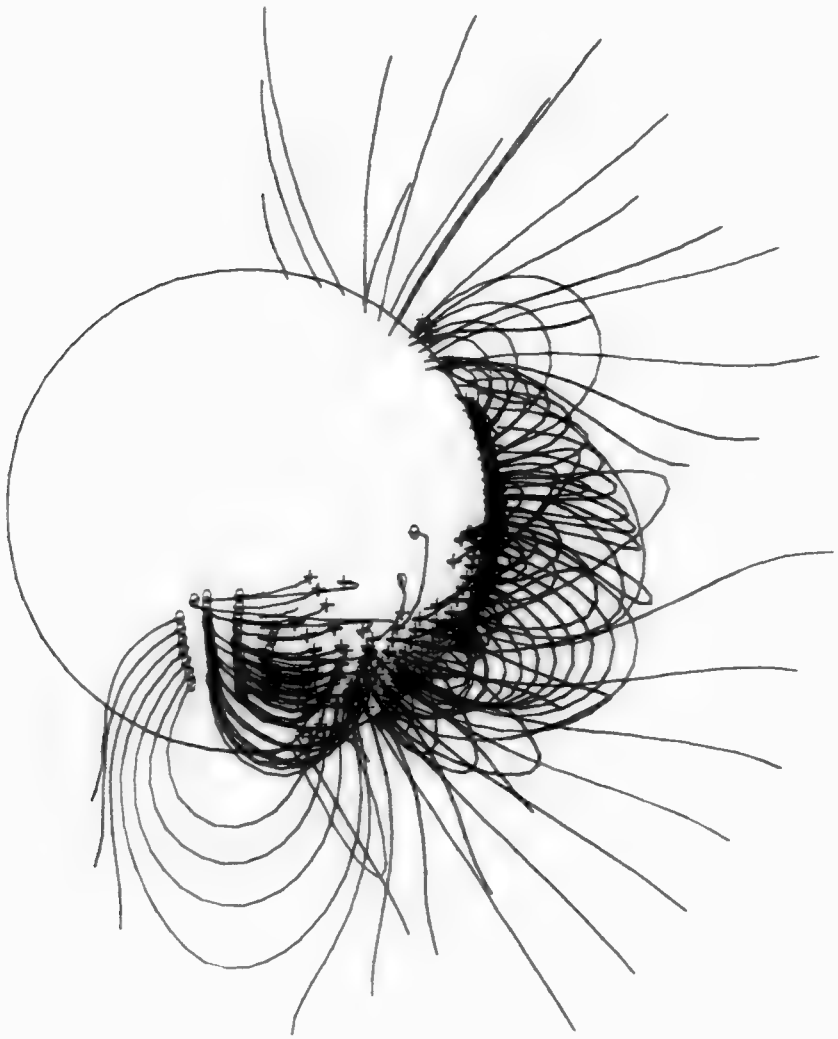


HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

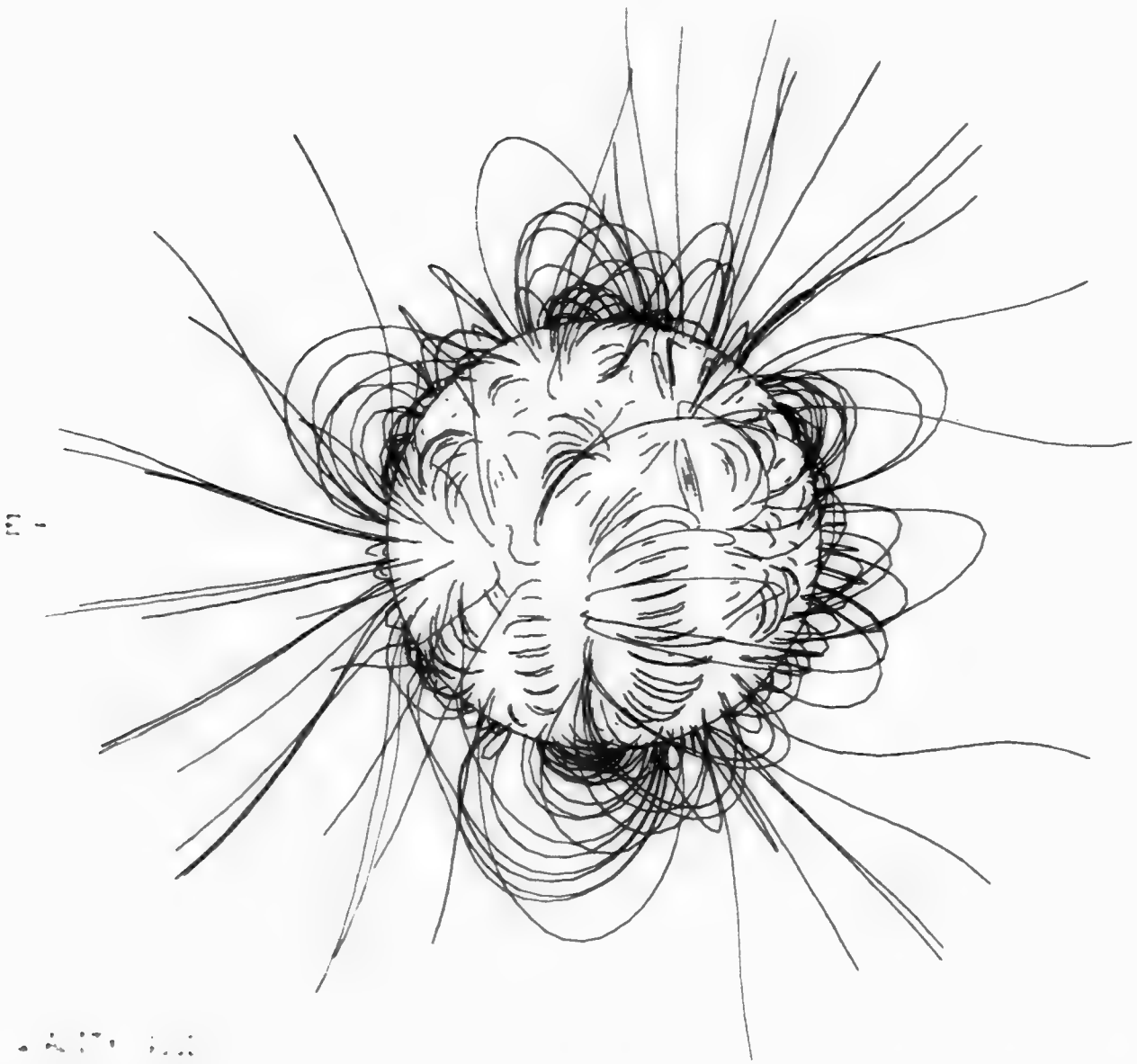


HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

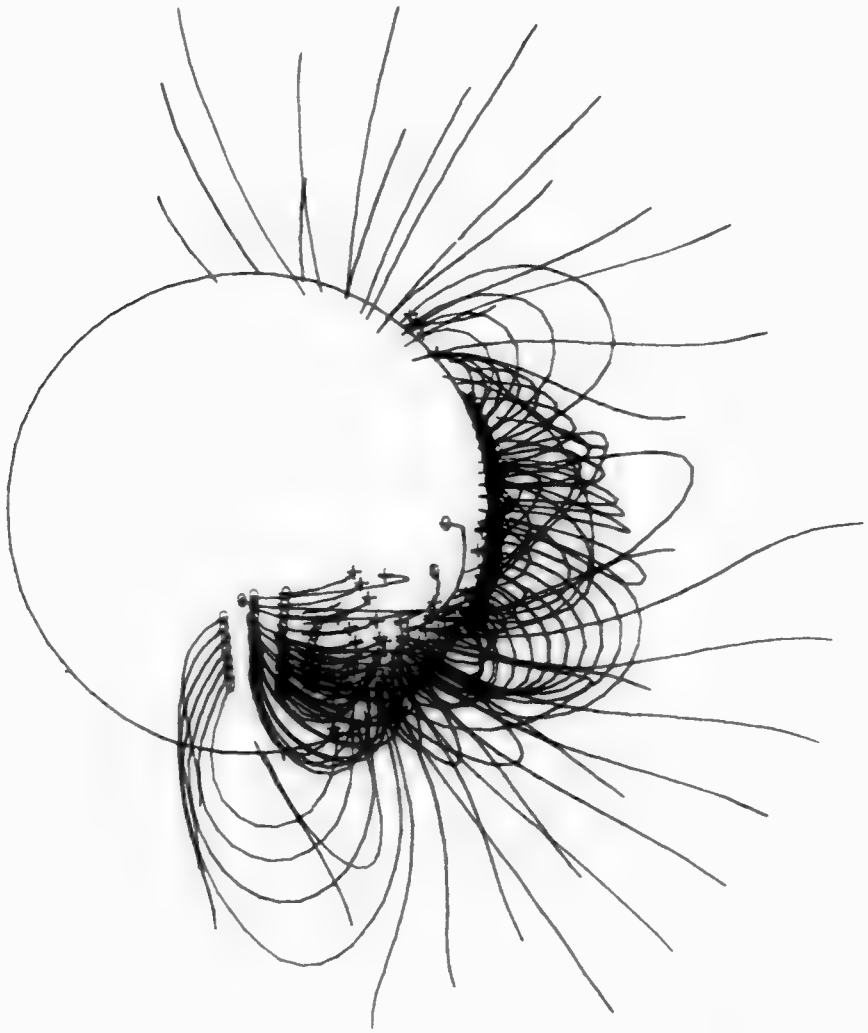
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



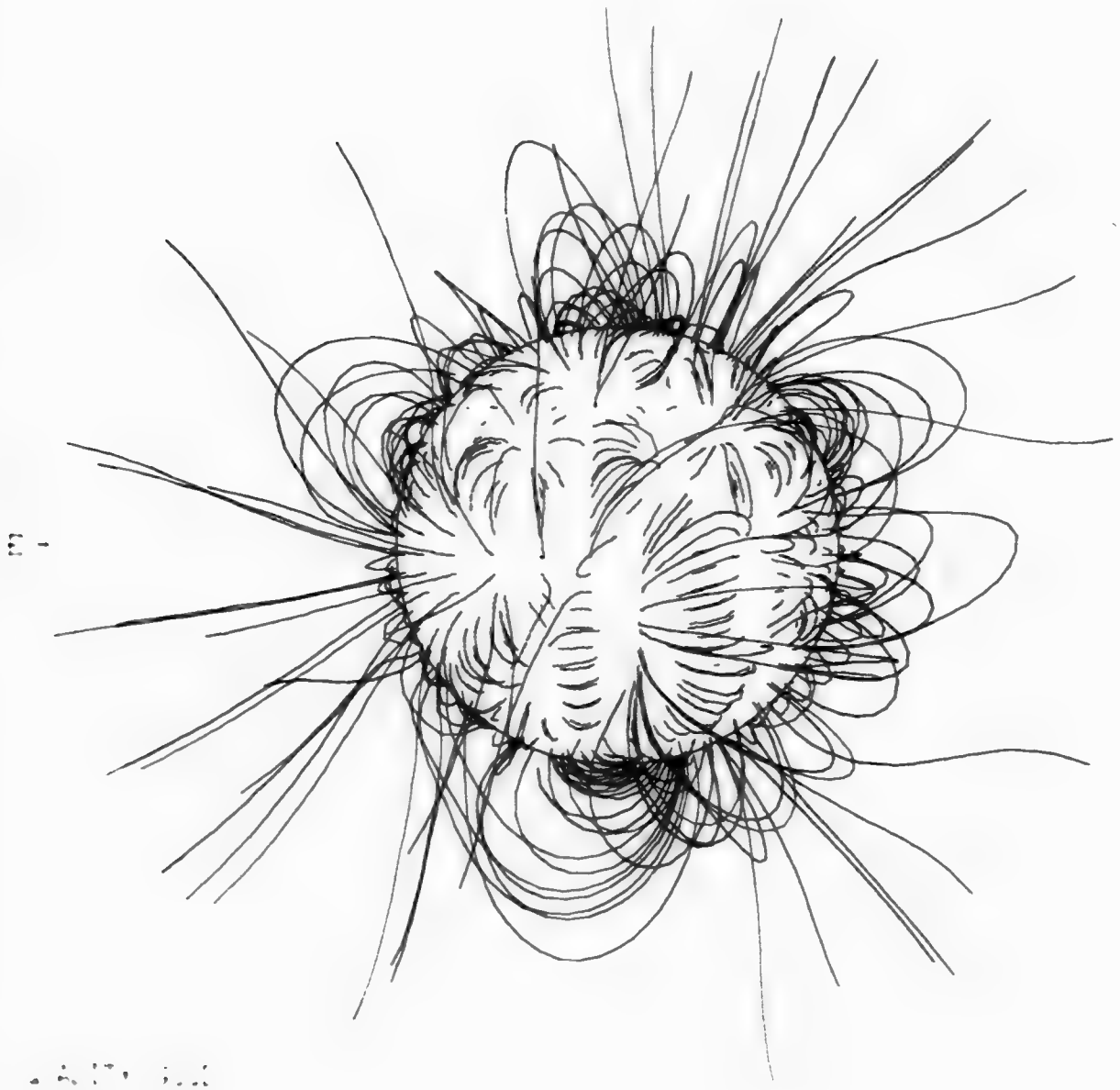
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



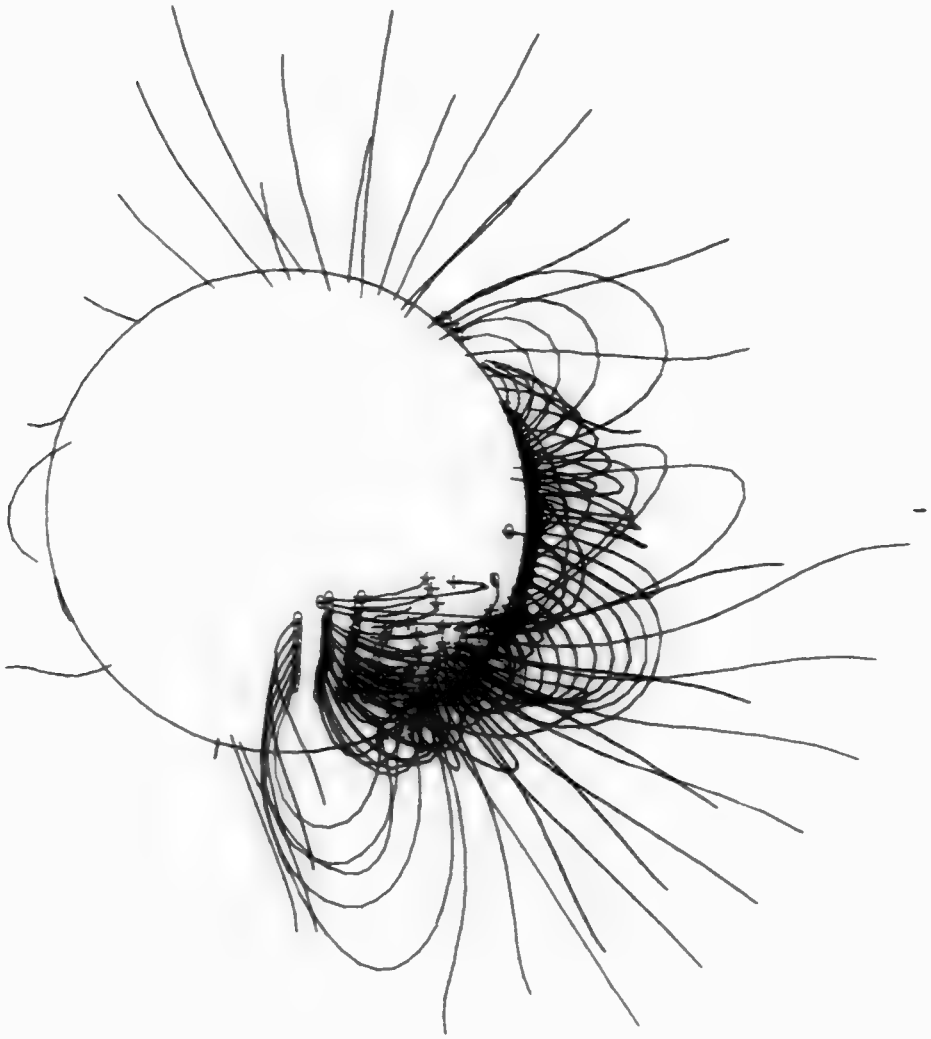
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



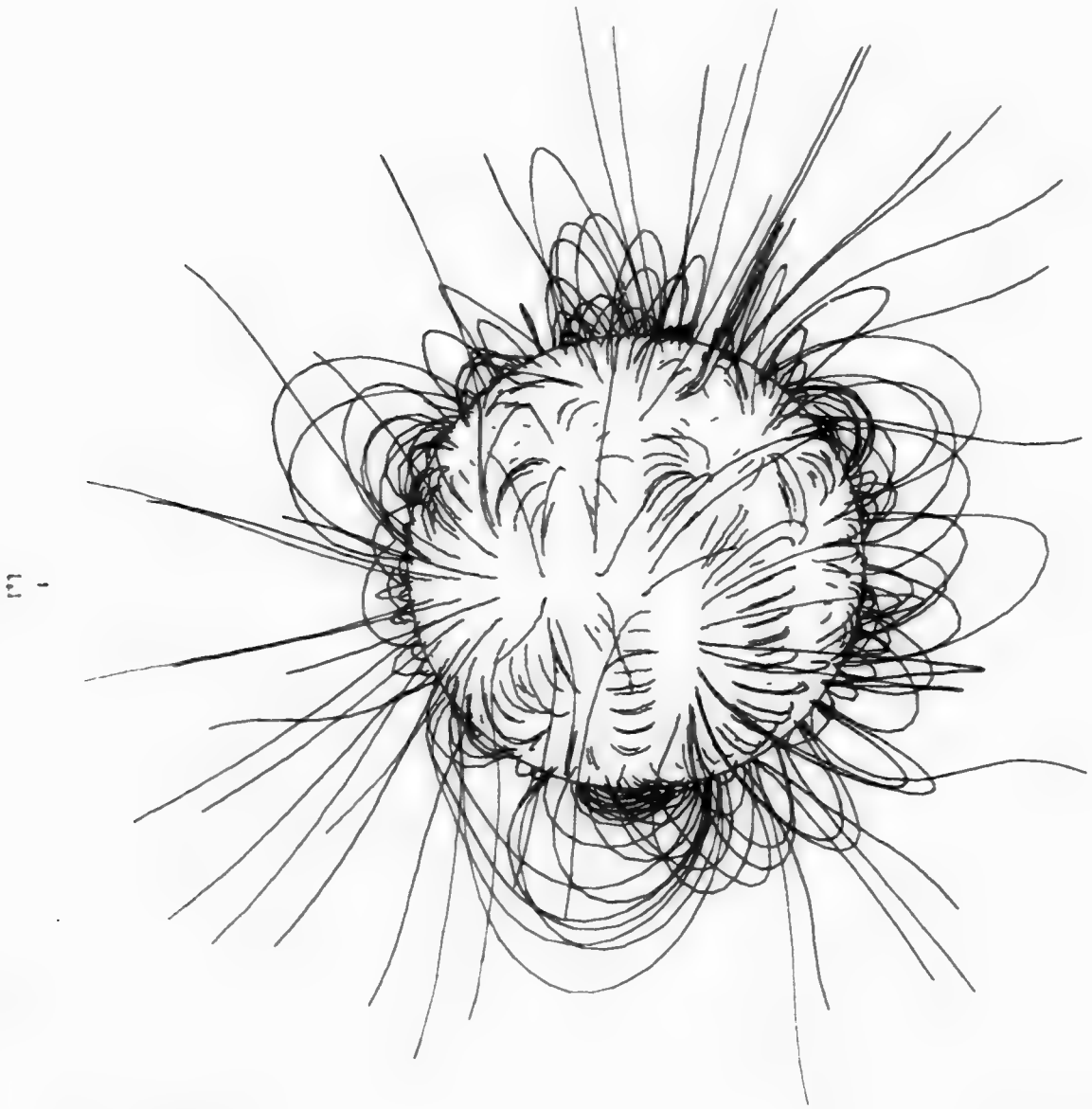
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



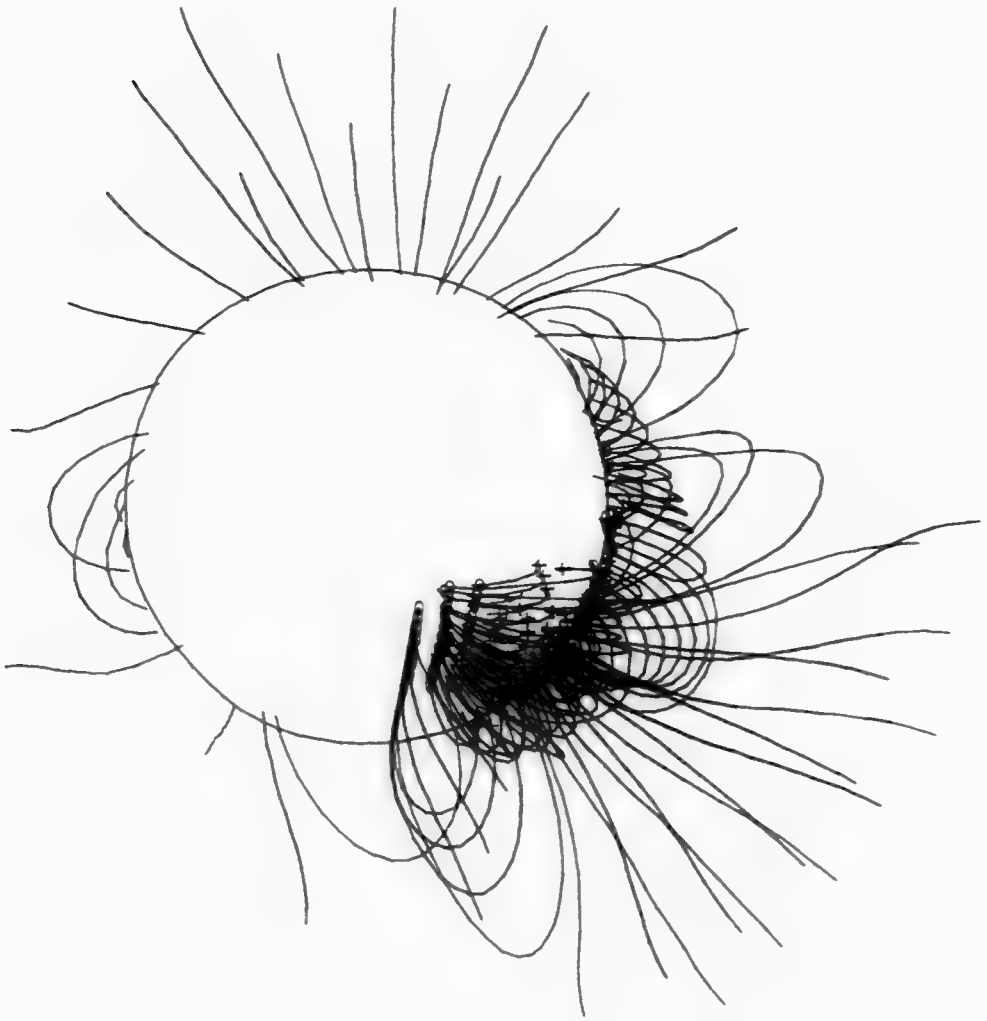
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

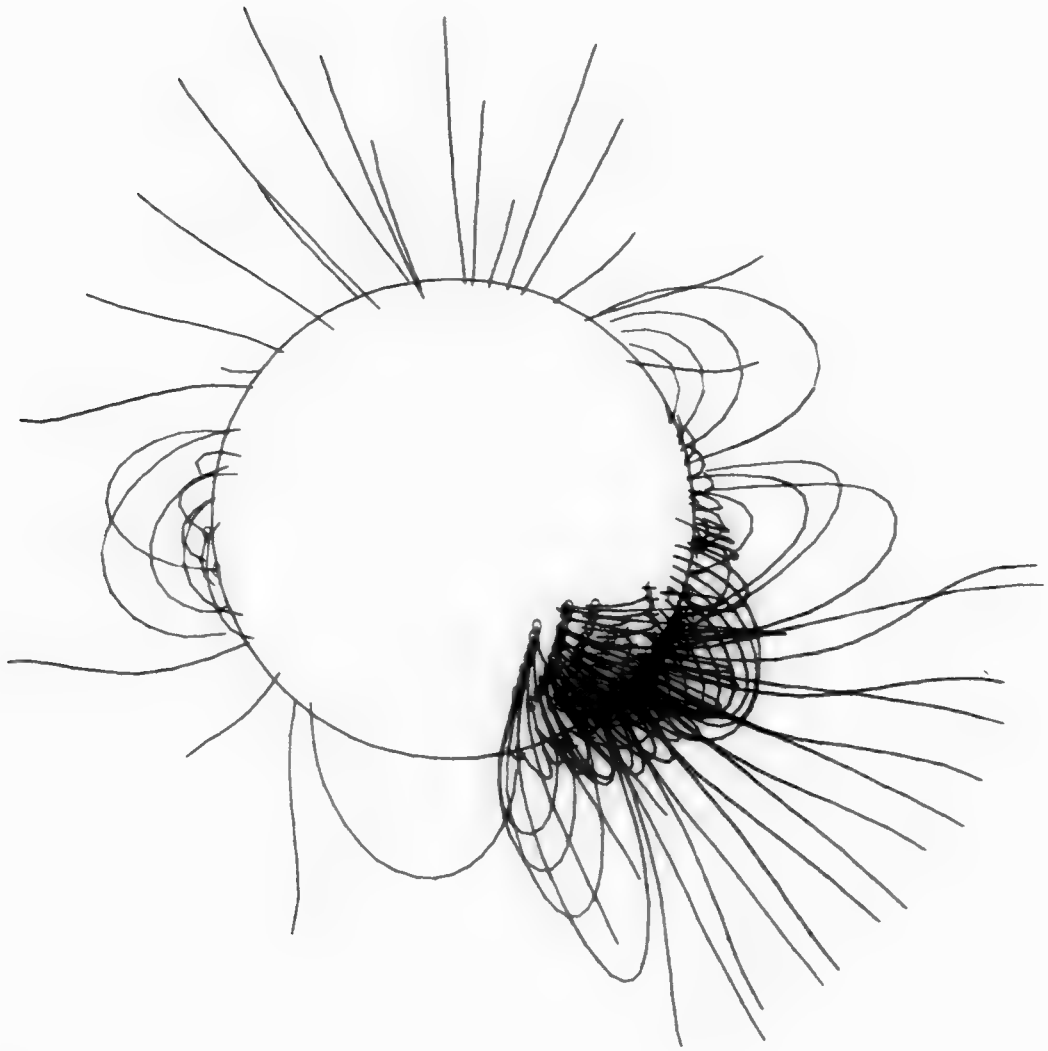


HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

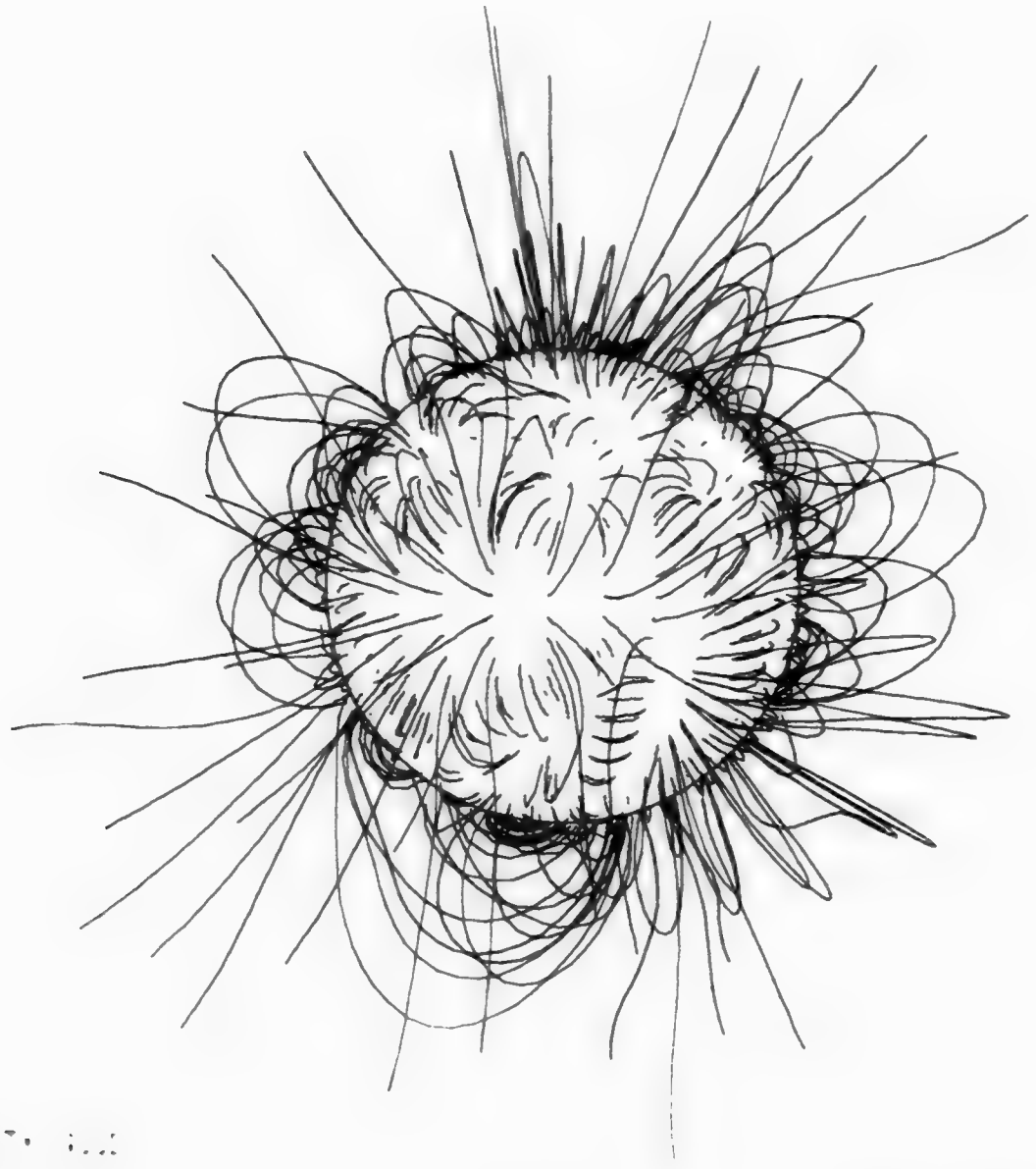


HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

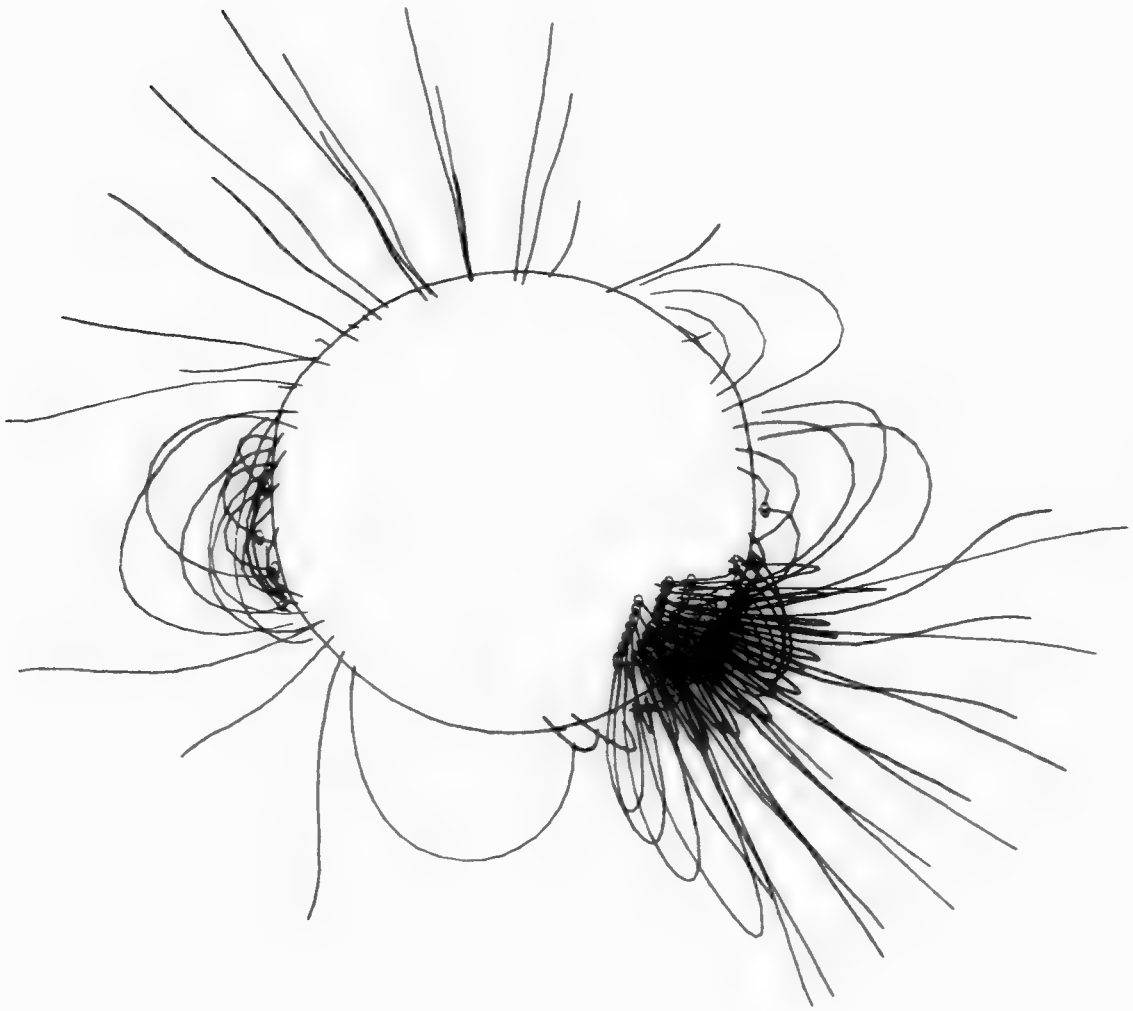
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



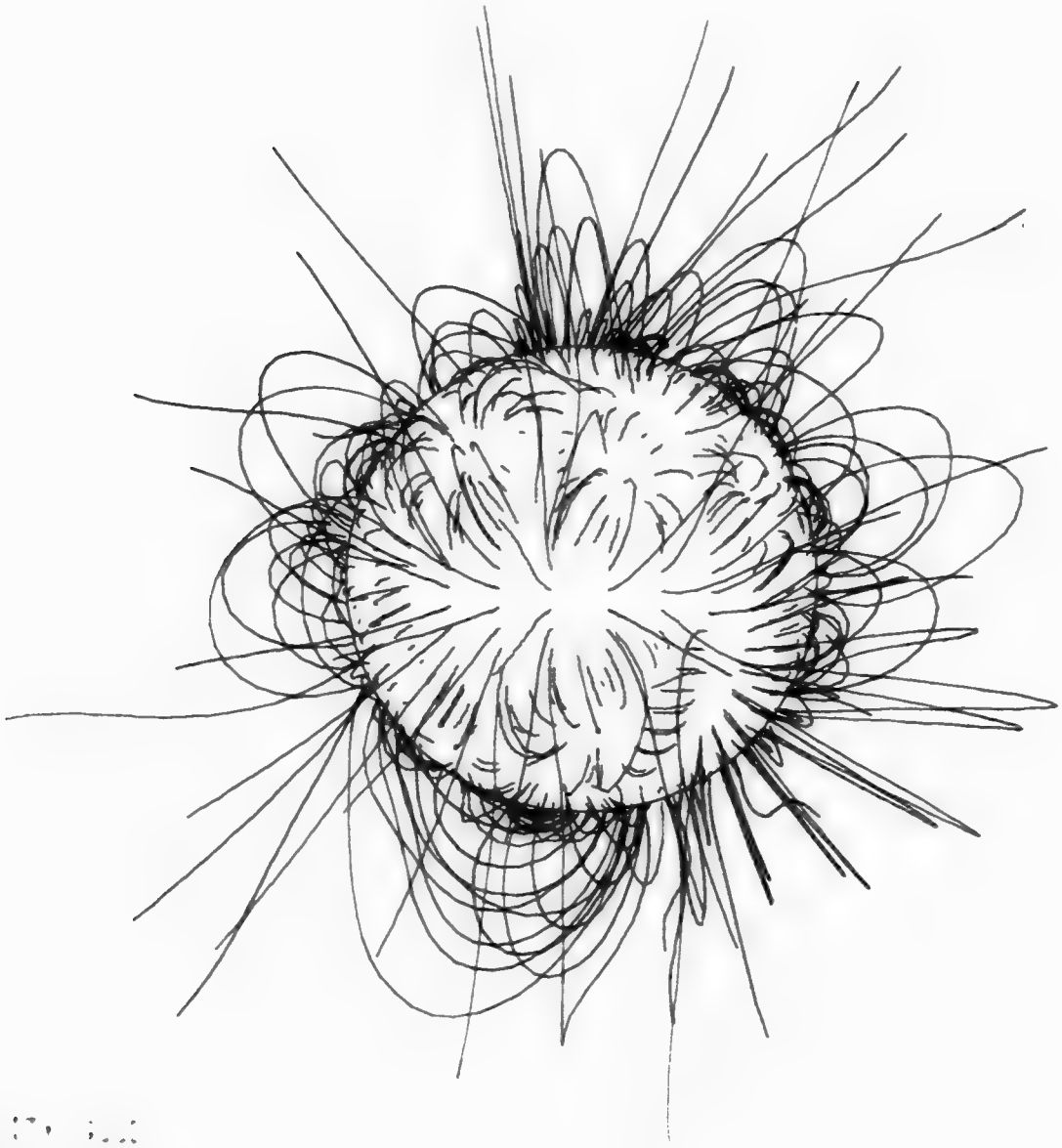
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



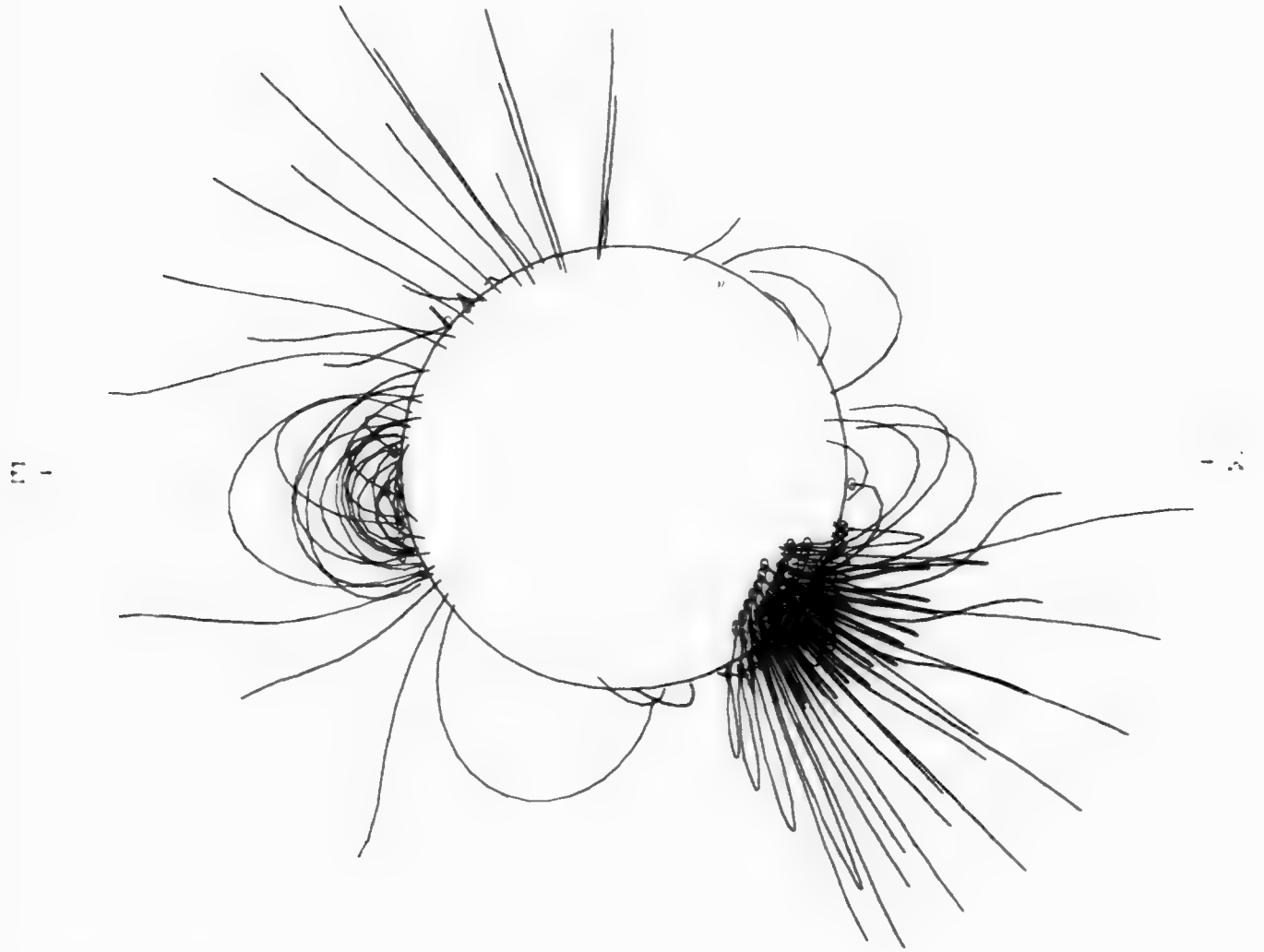
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



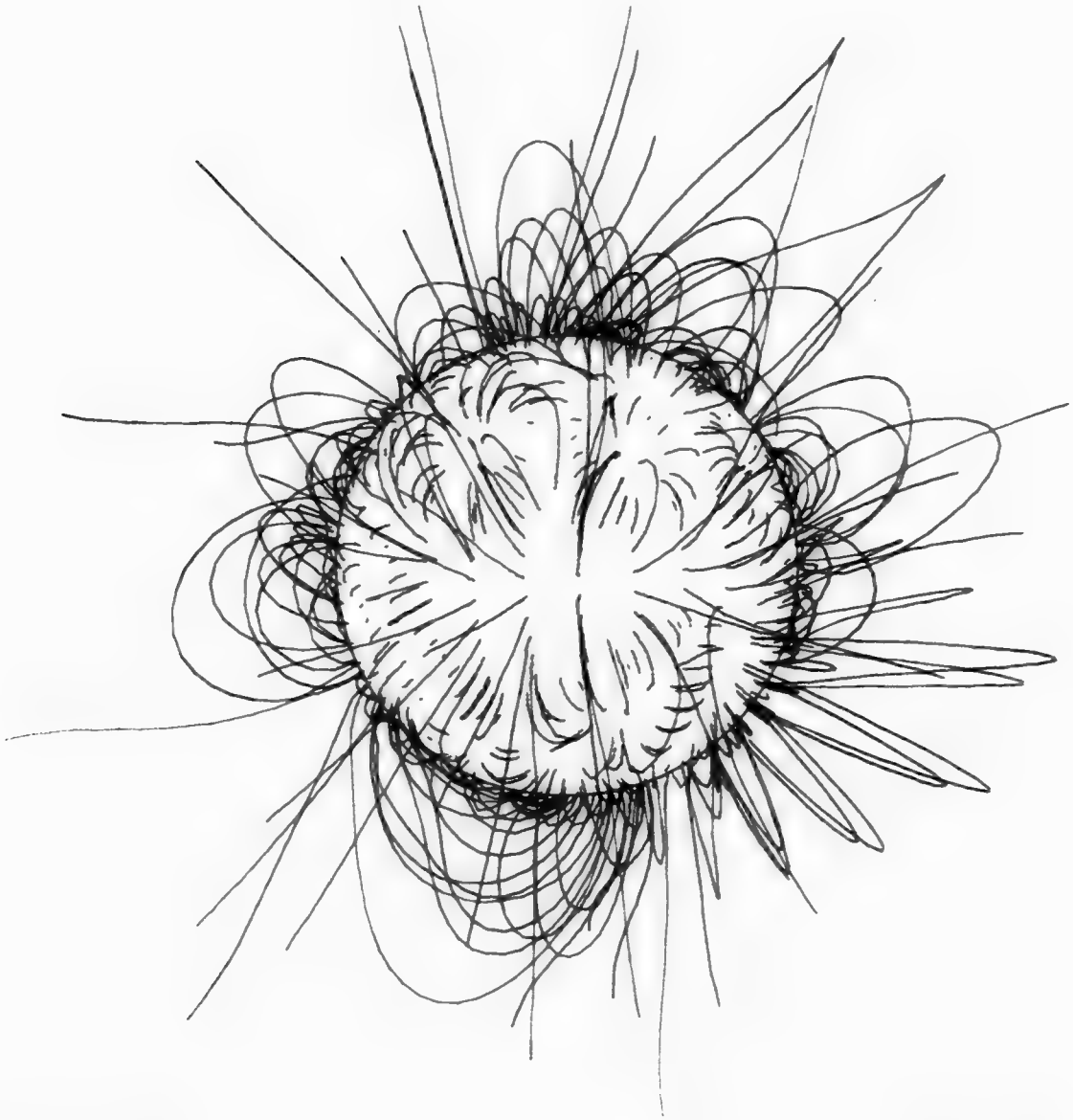
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



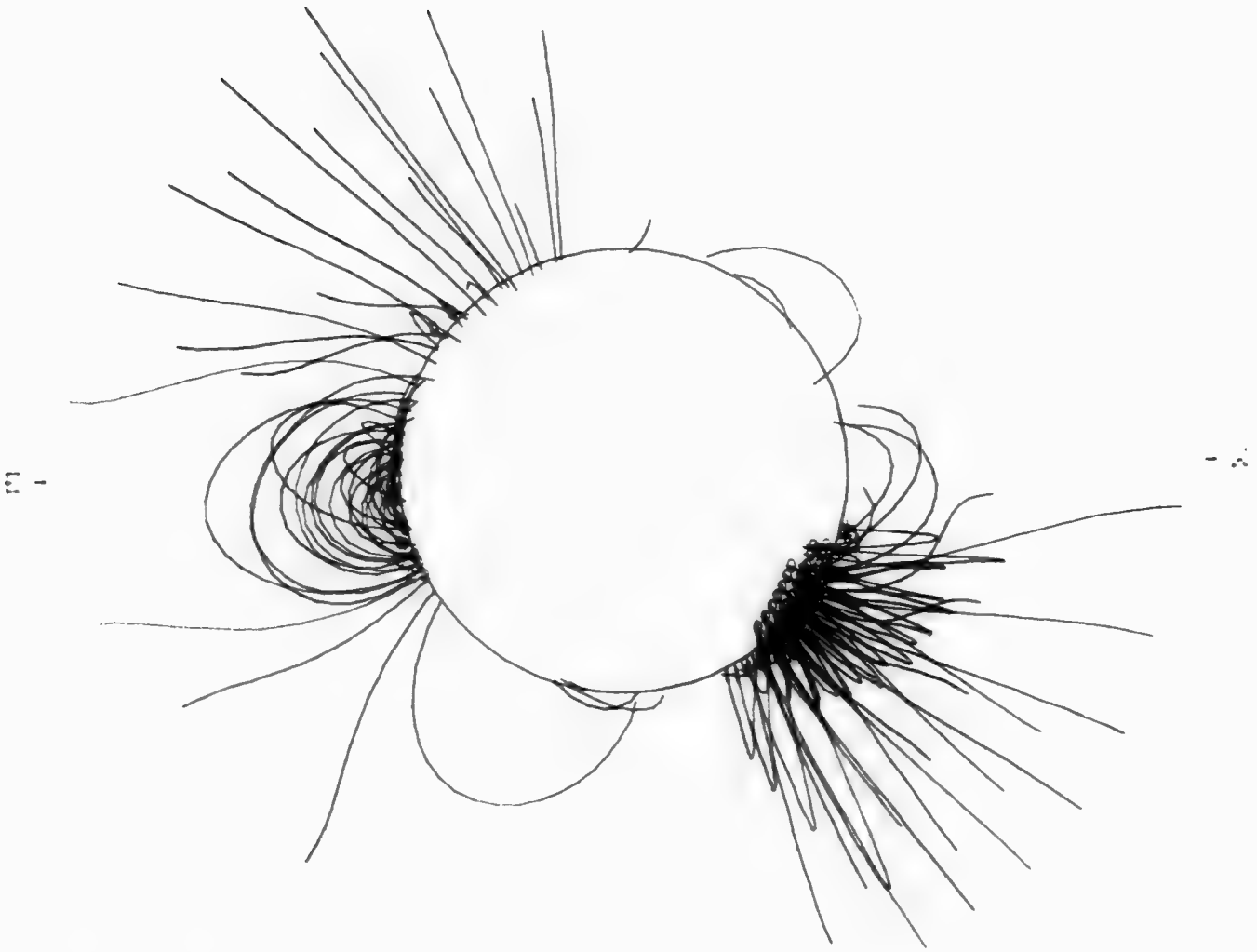
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



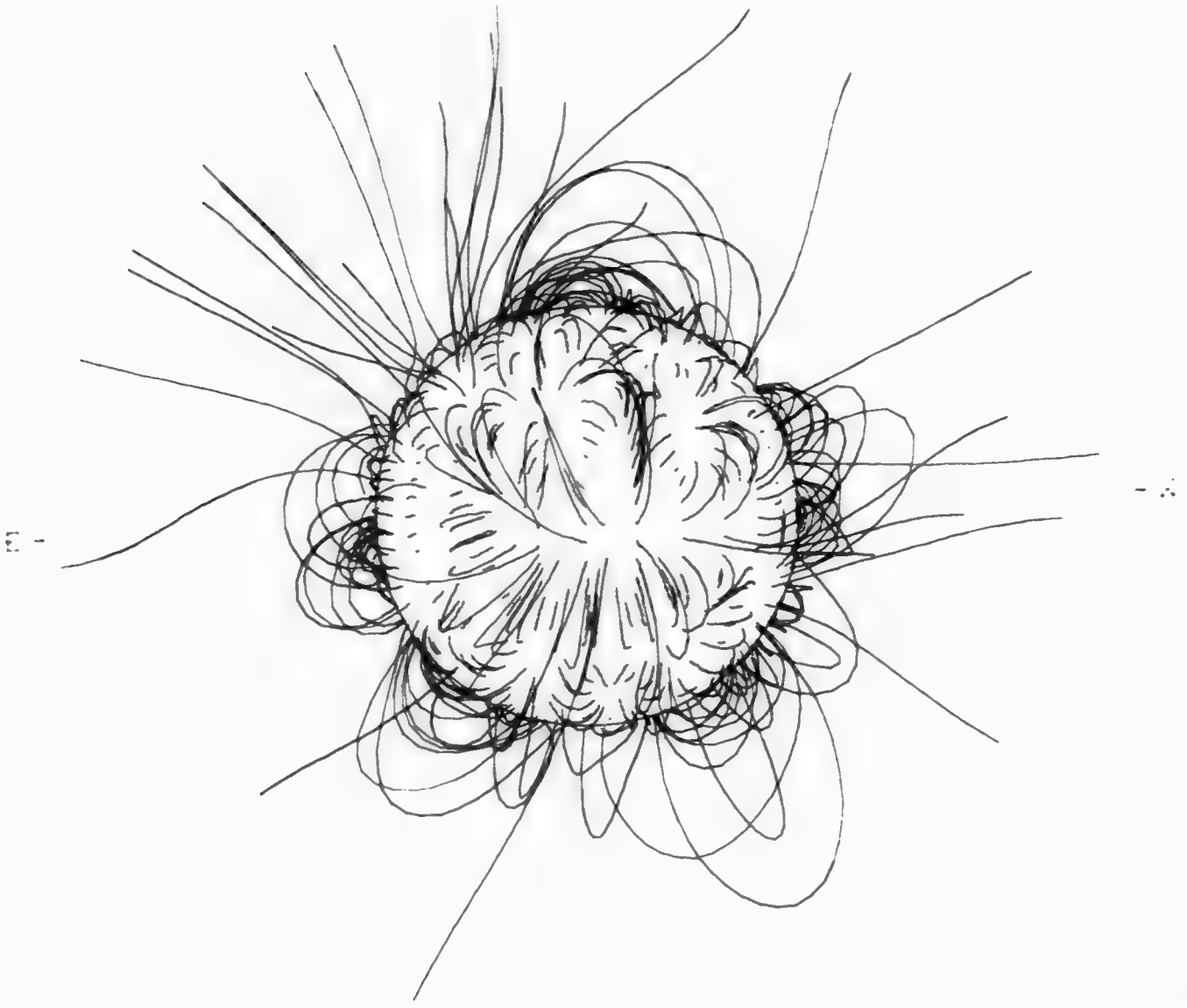
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



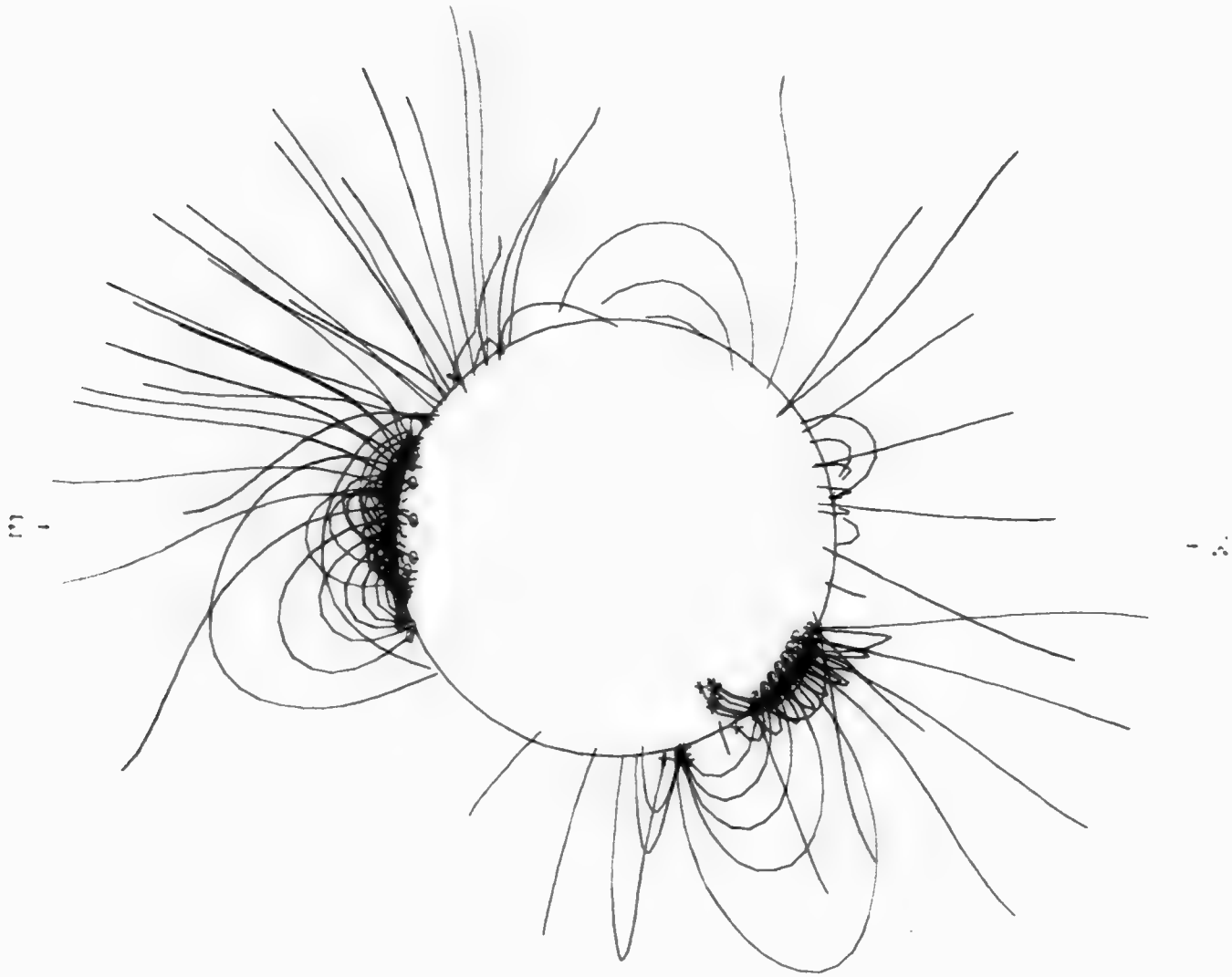
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



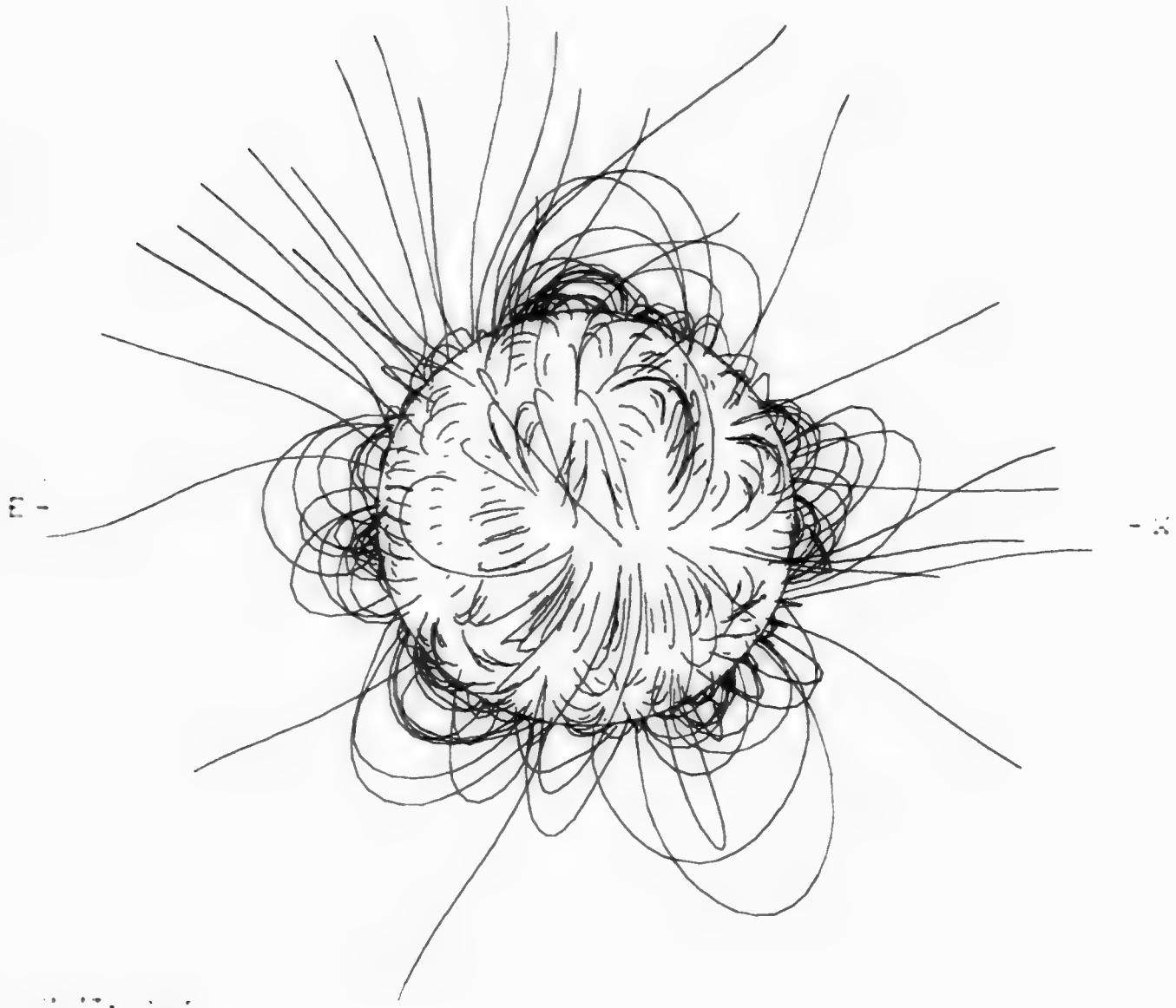
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



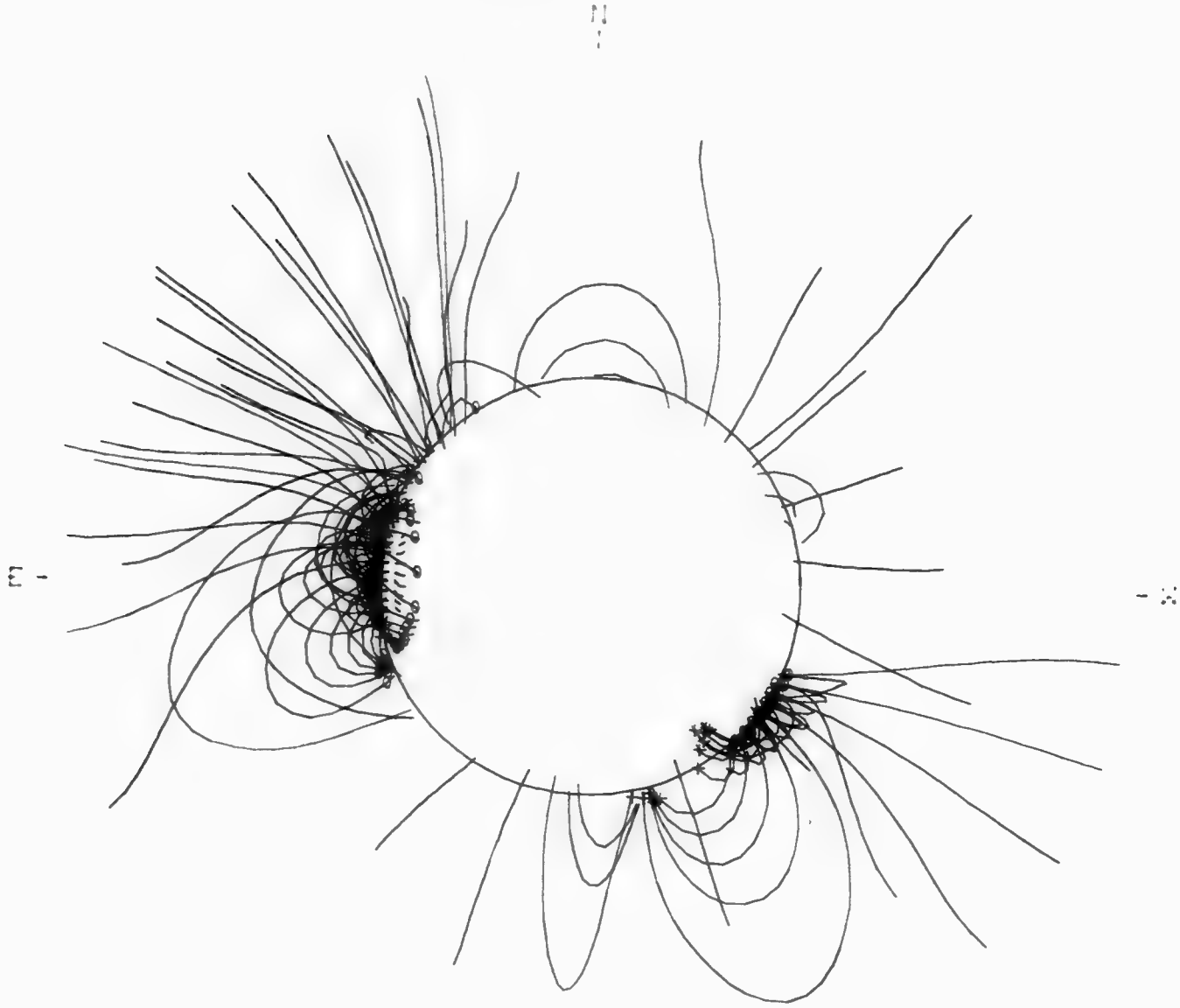
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



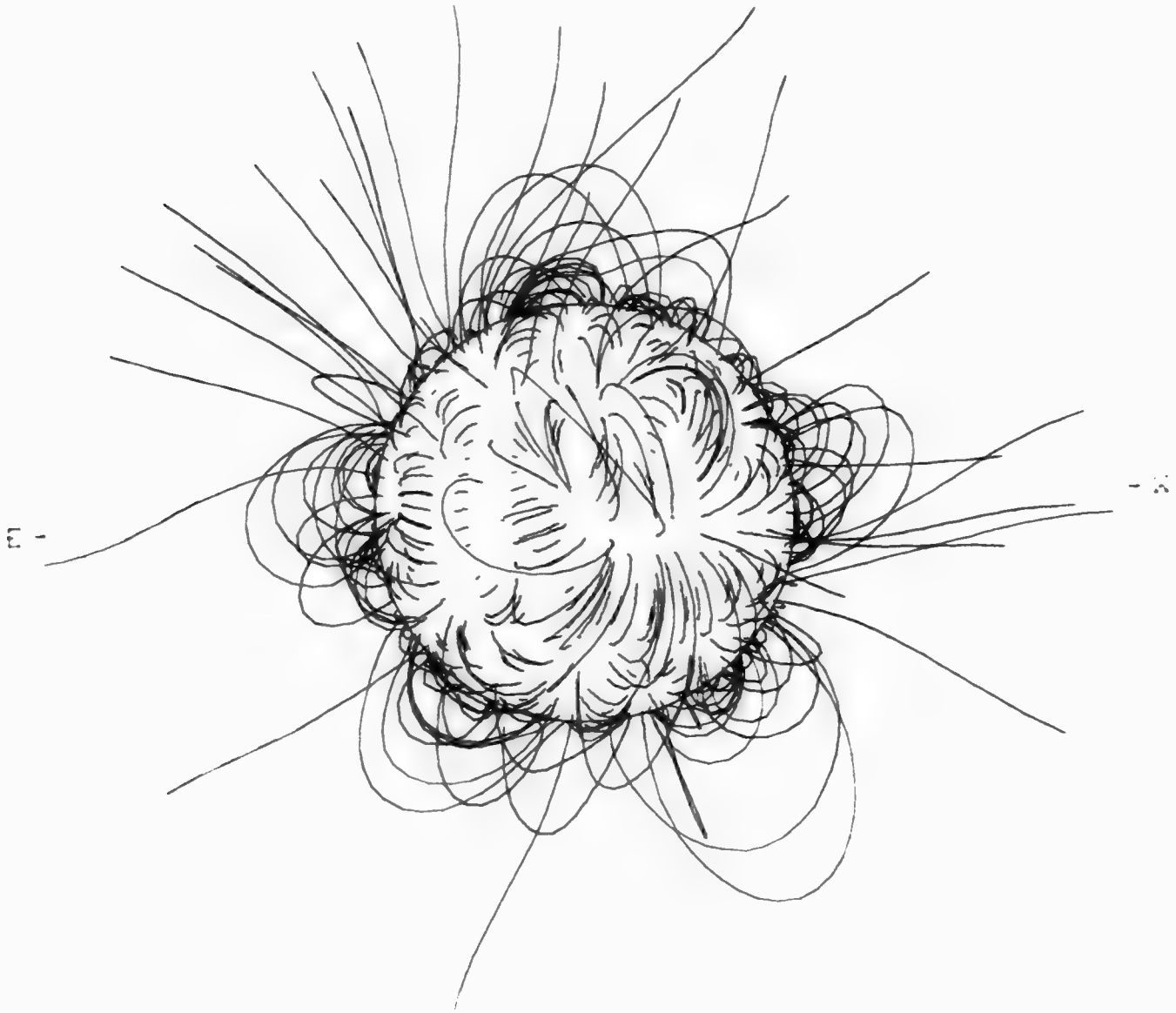
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



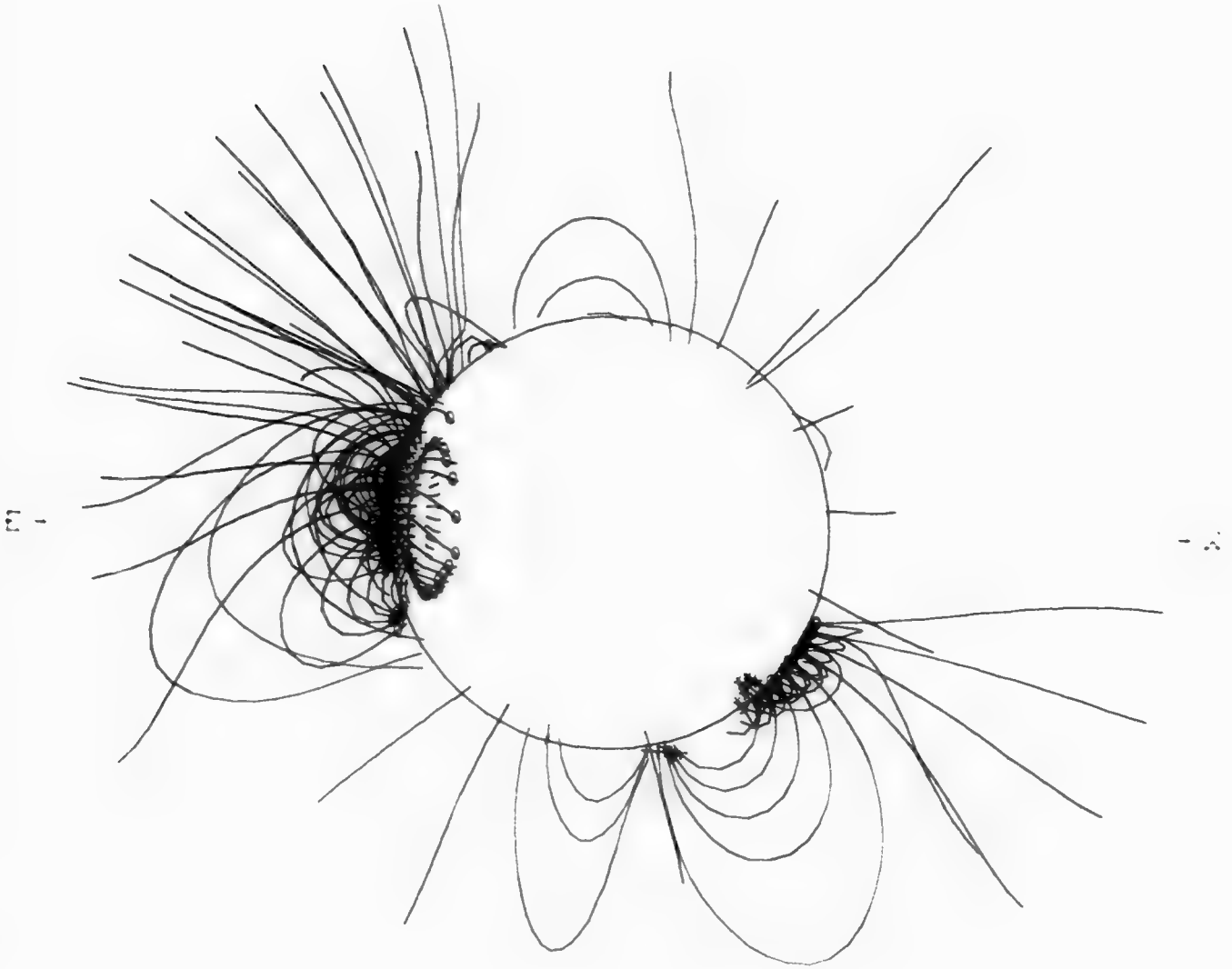
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



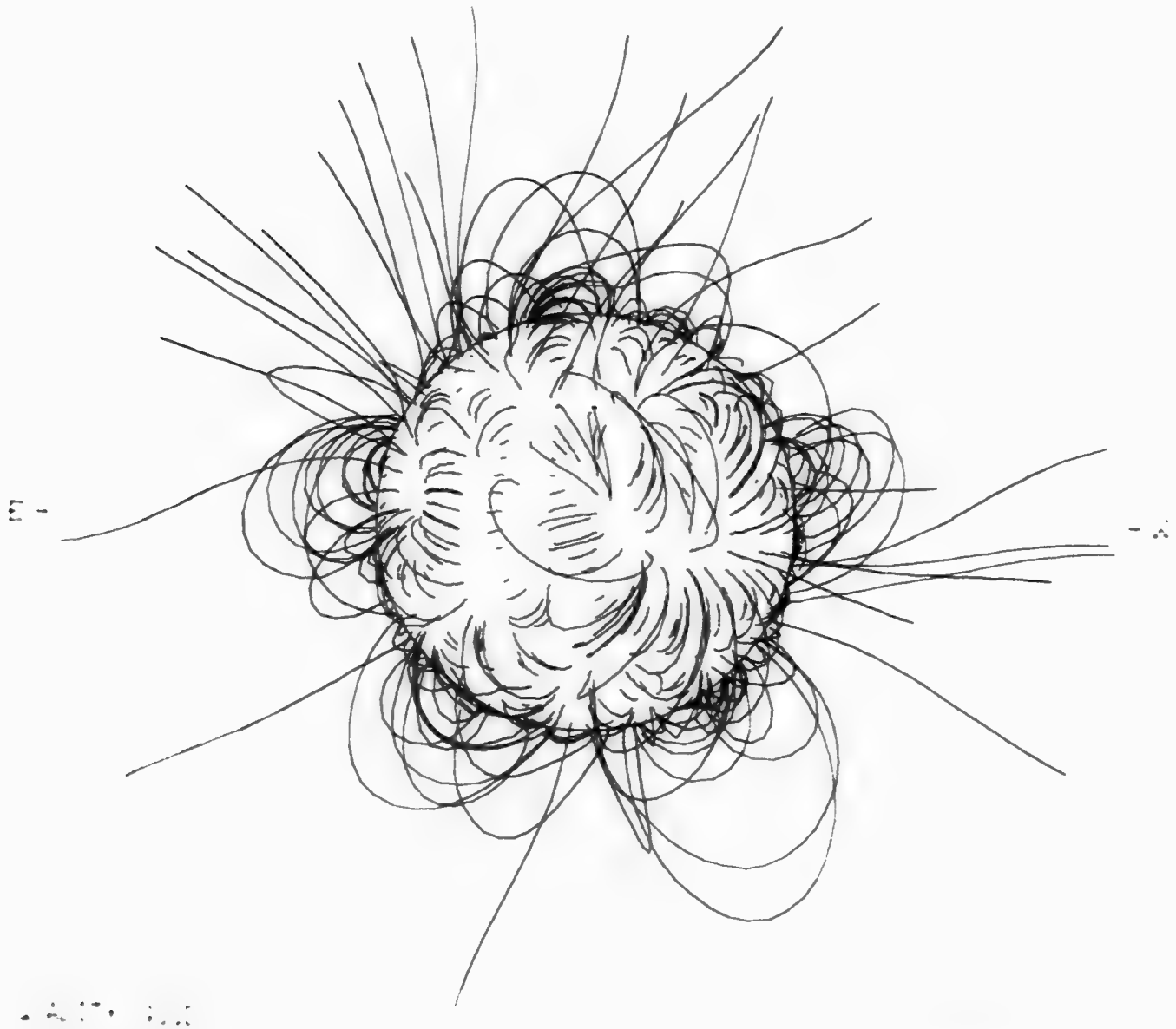
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



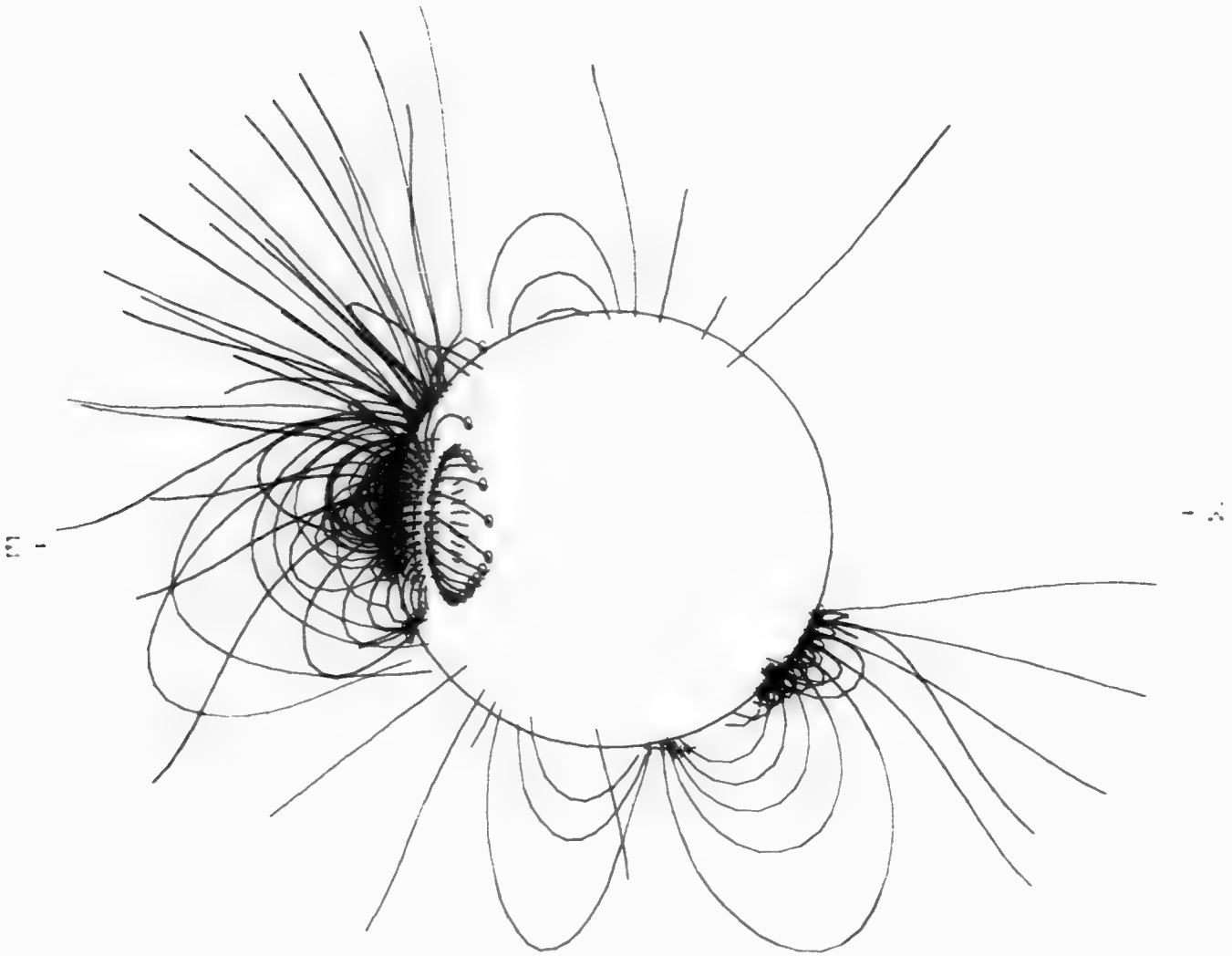
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



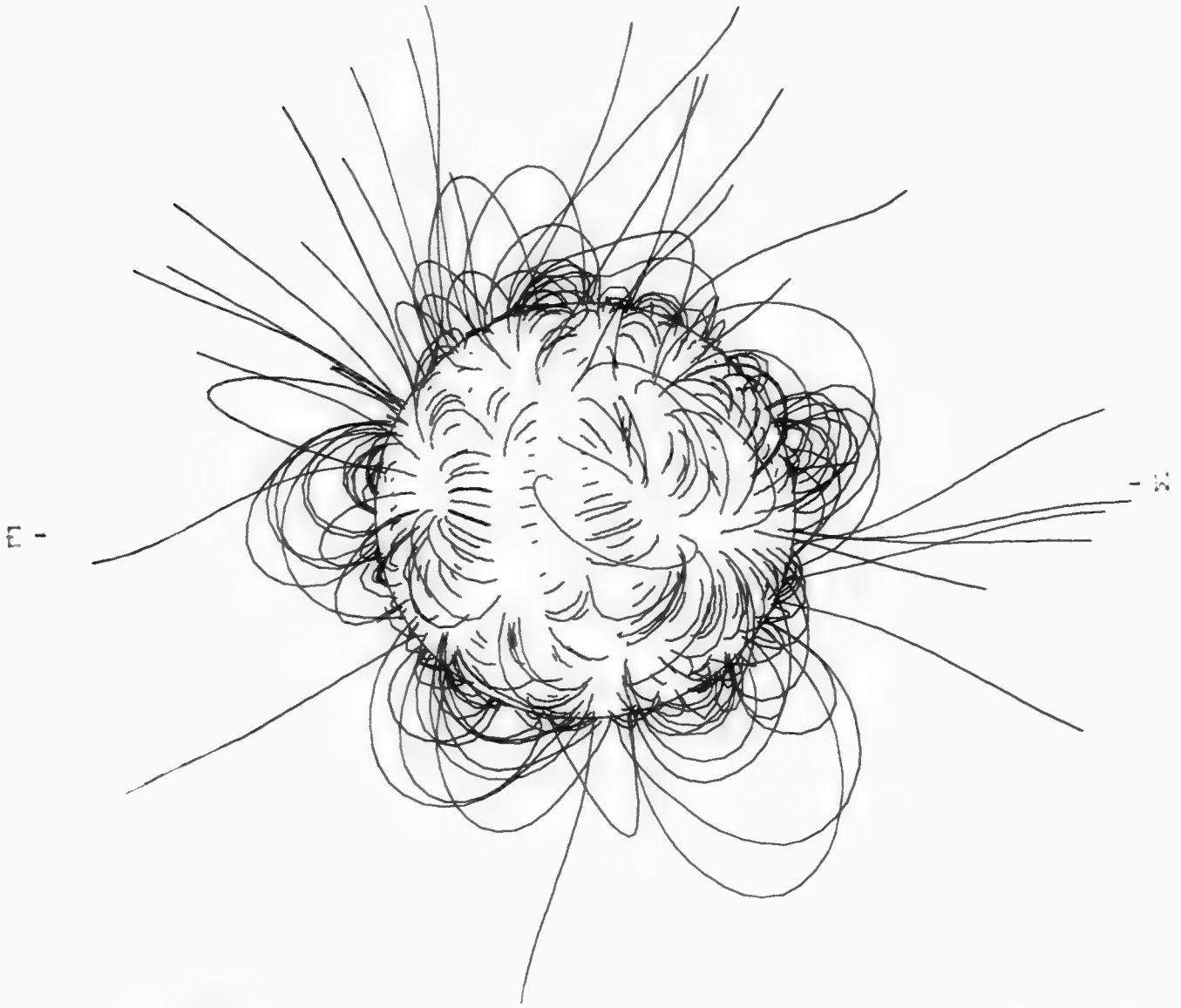
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

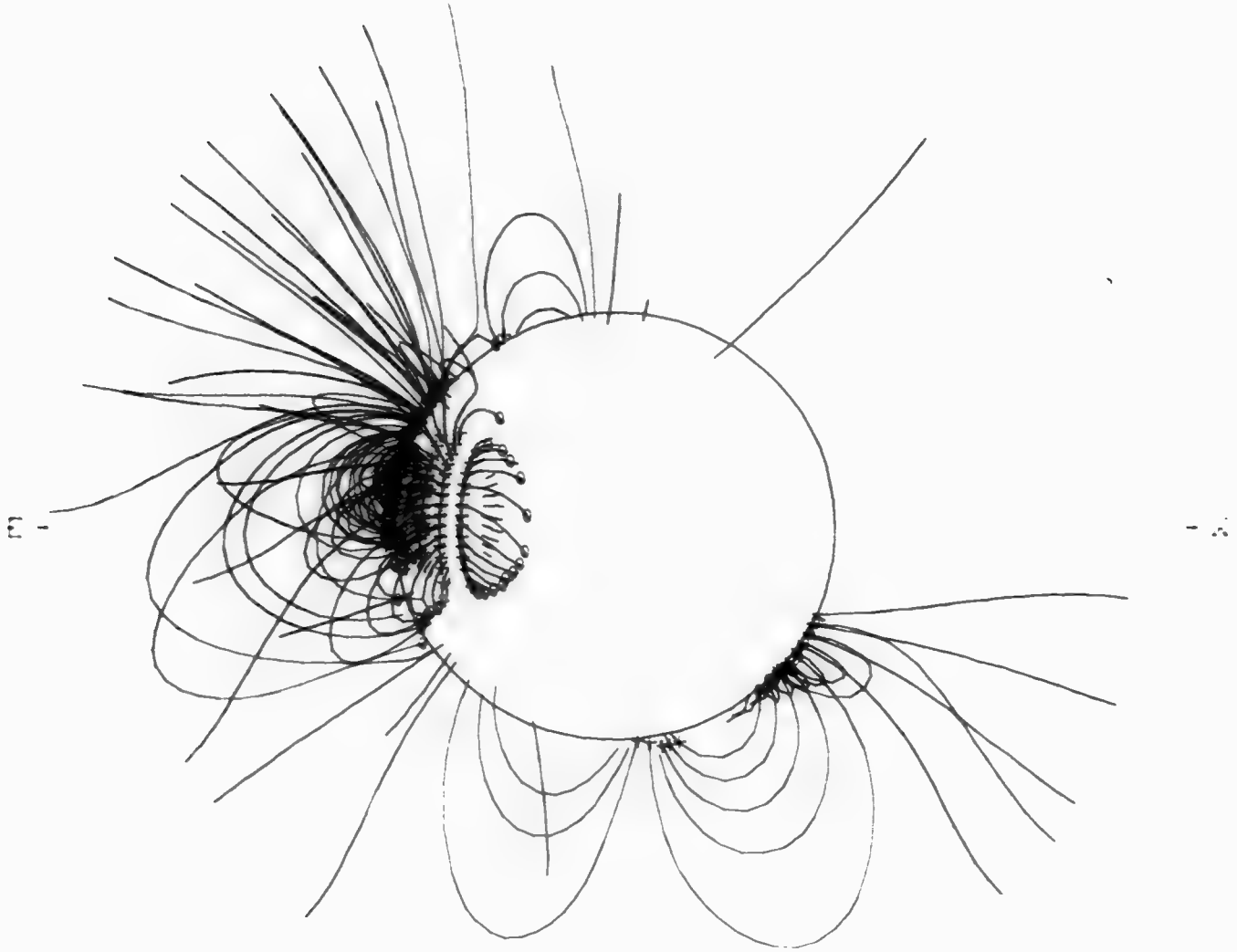


HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

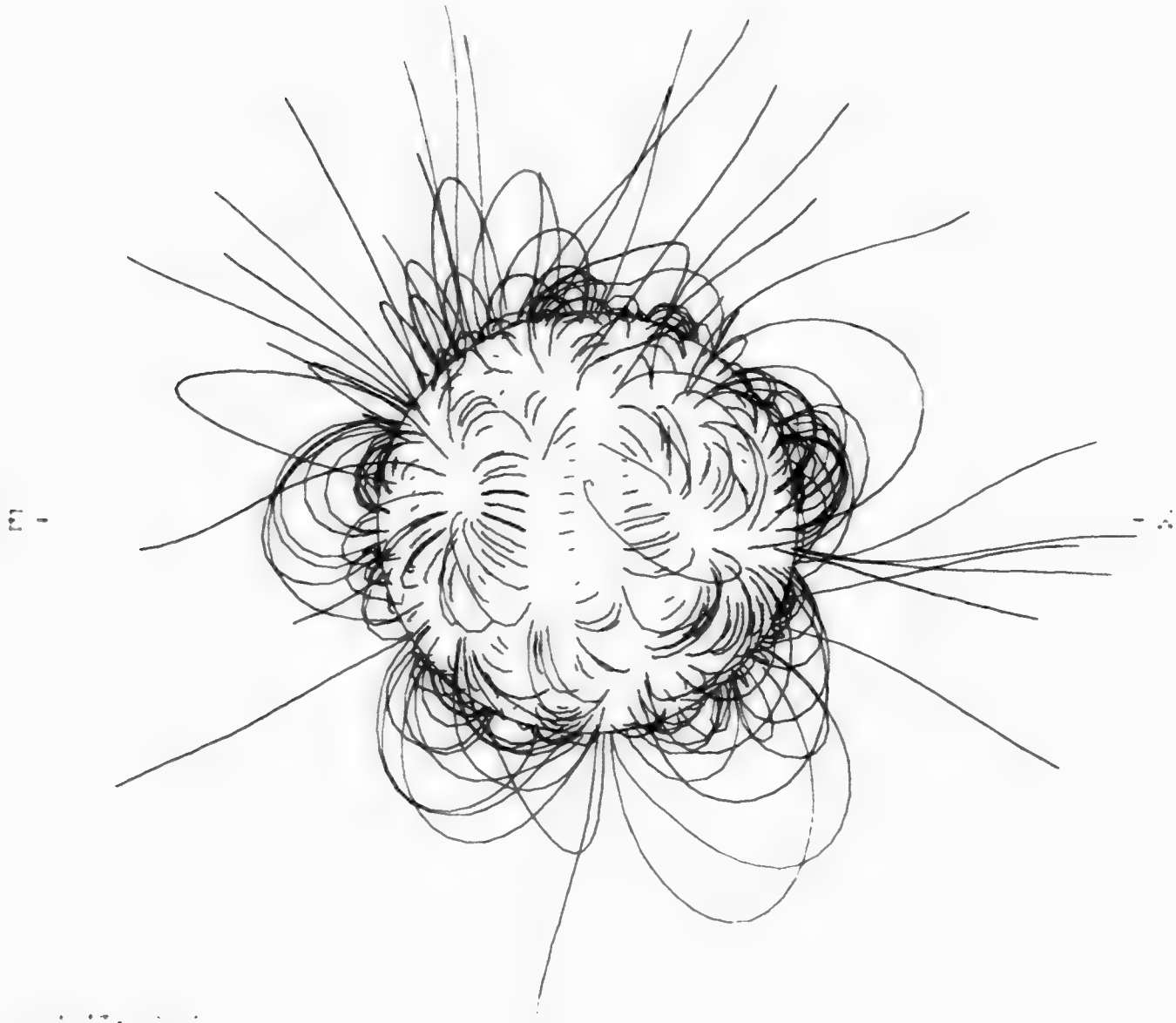


RGT. 1553 LONG. 220°

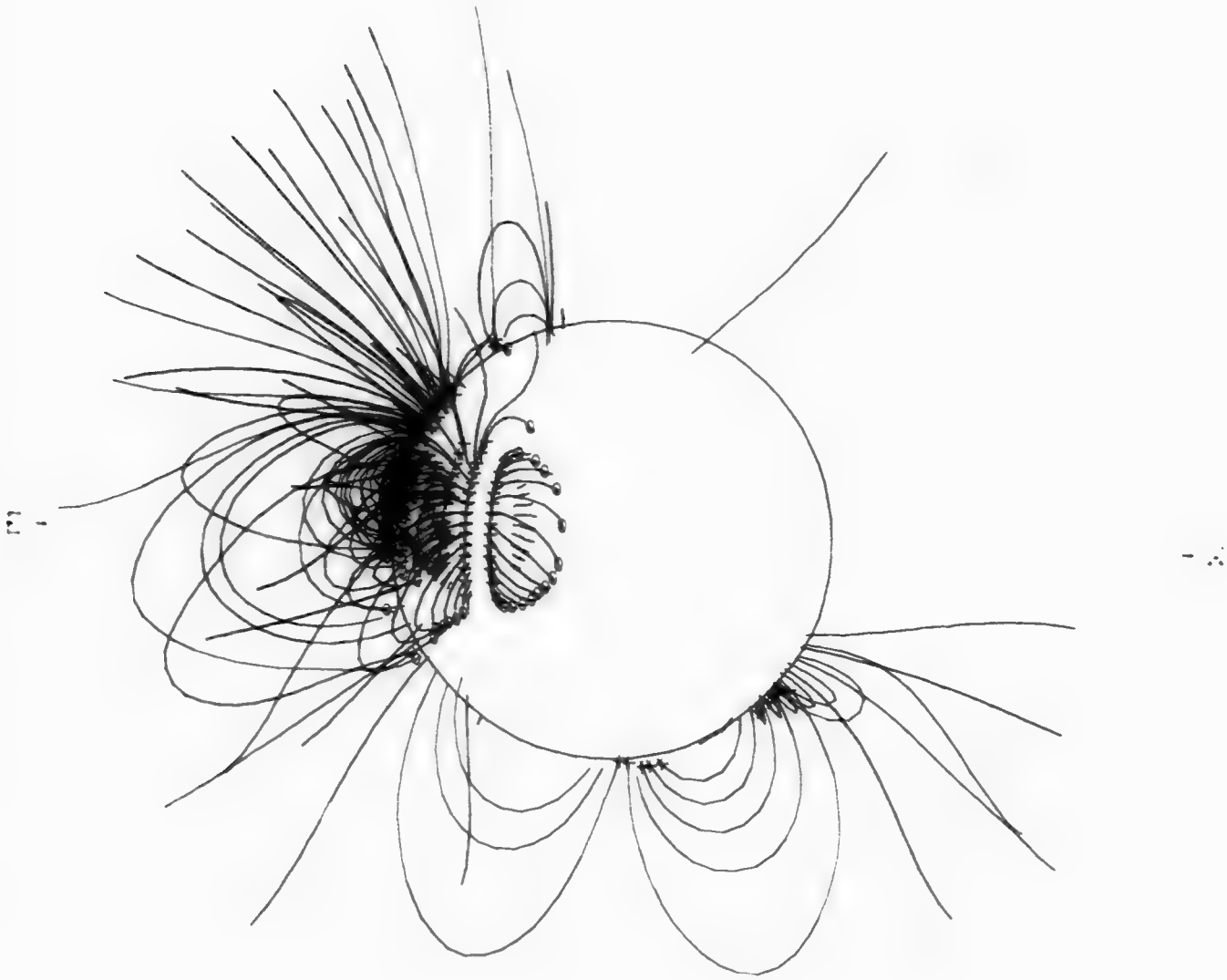
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



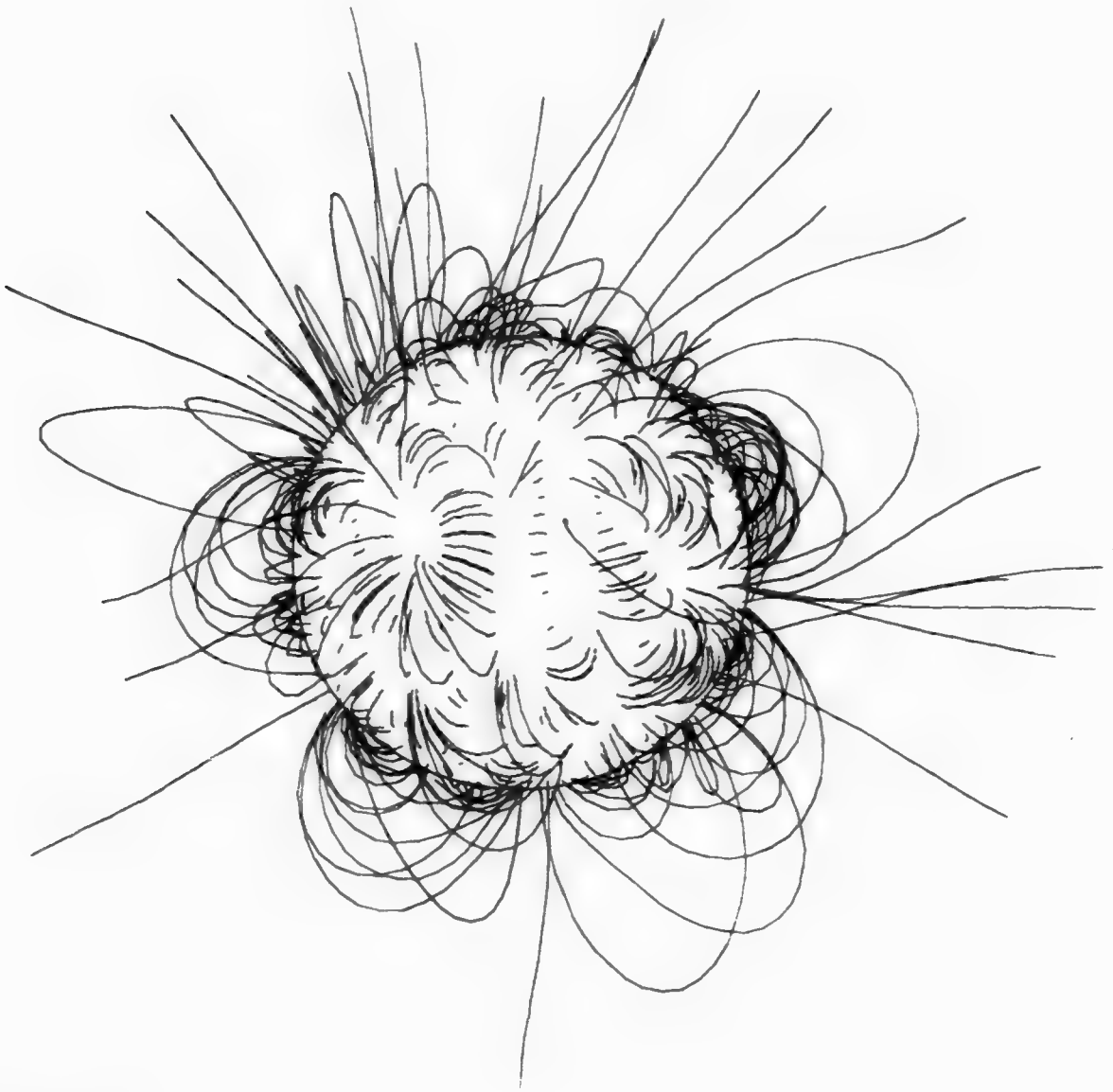
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



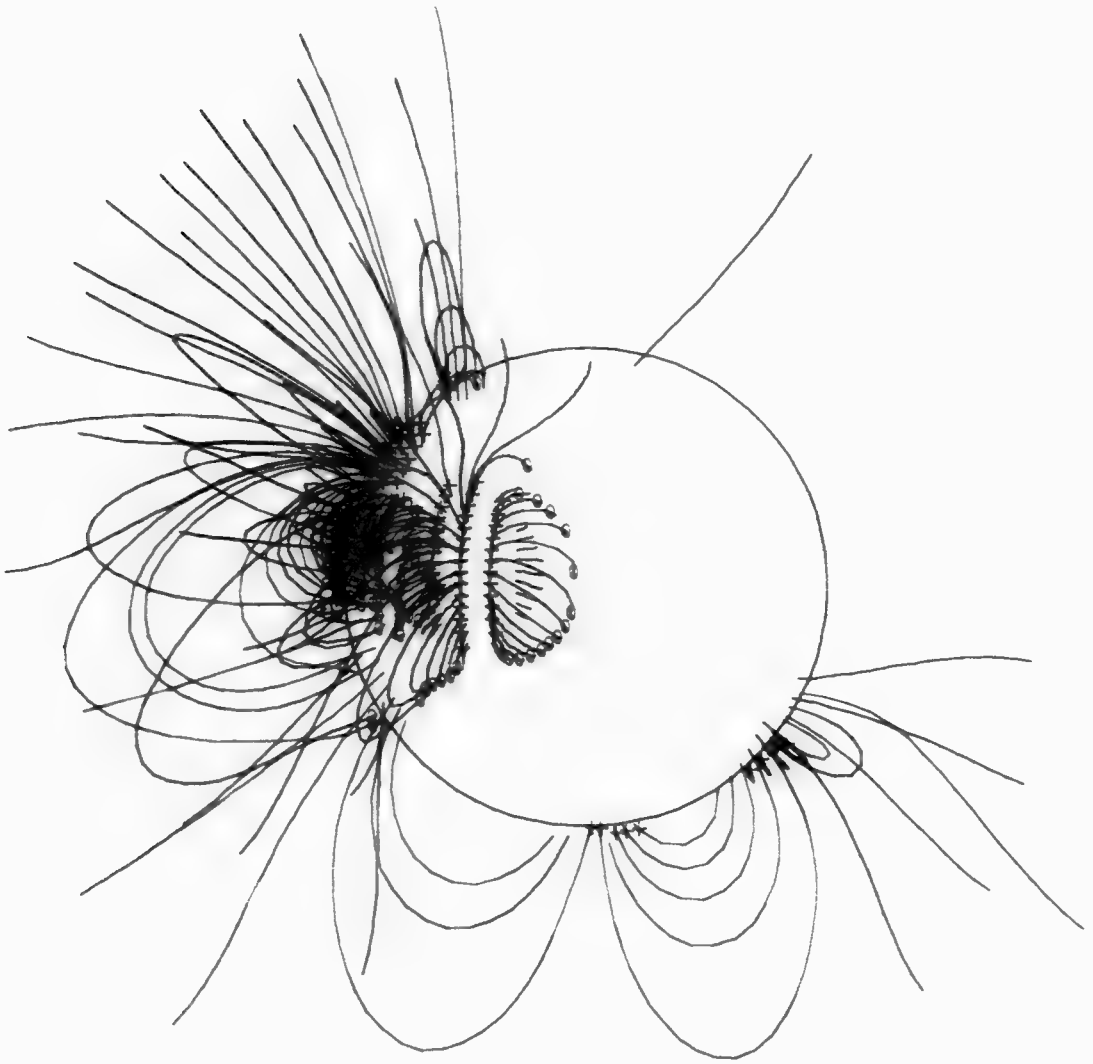
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



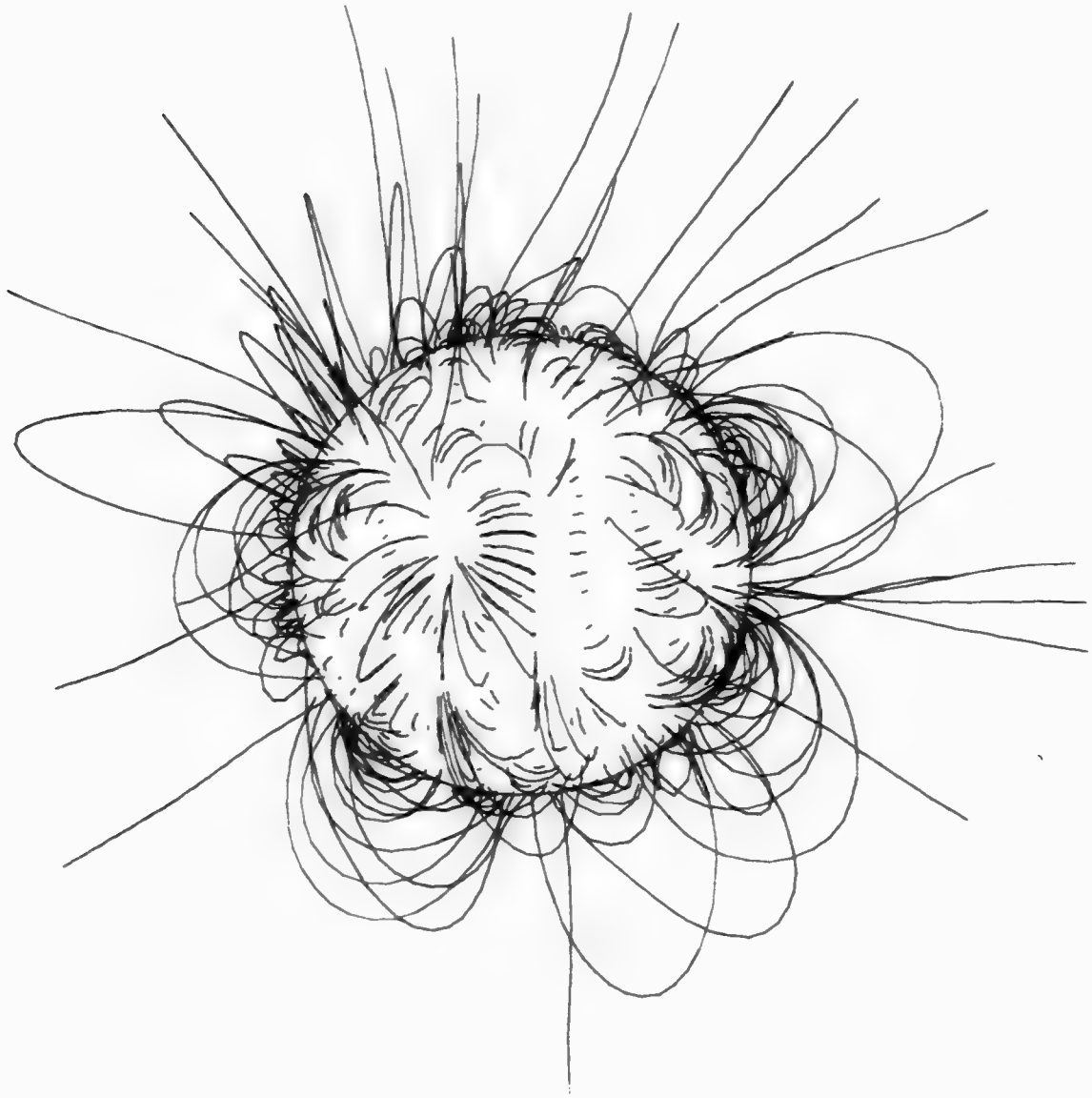
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



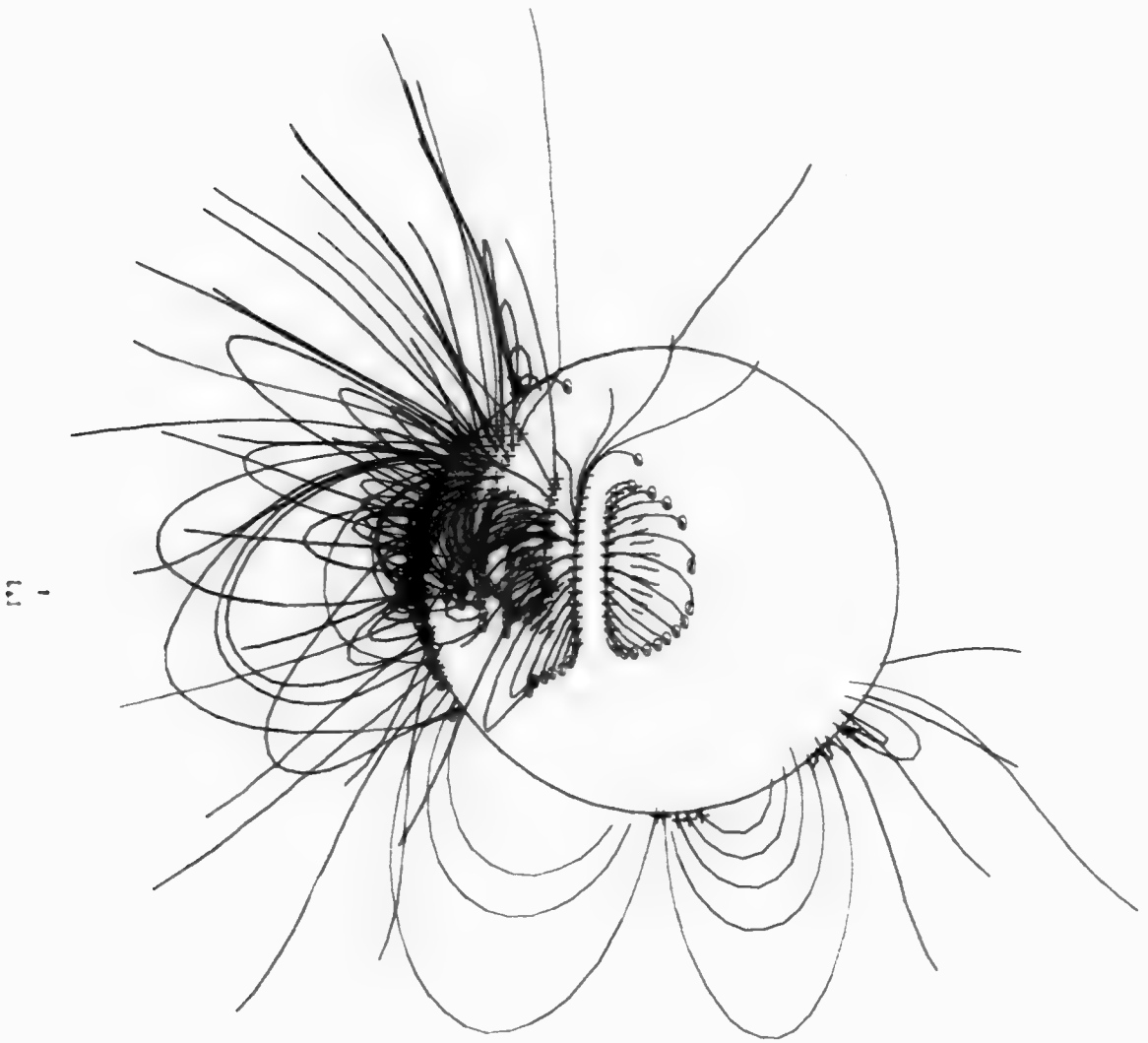
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



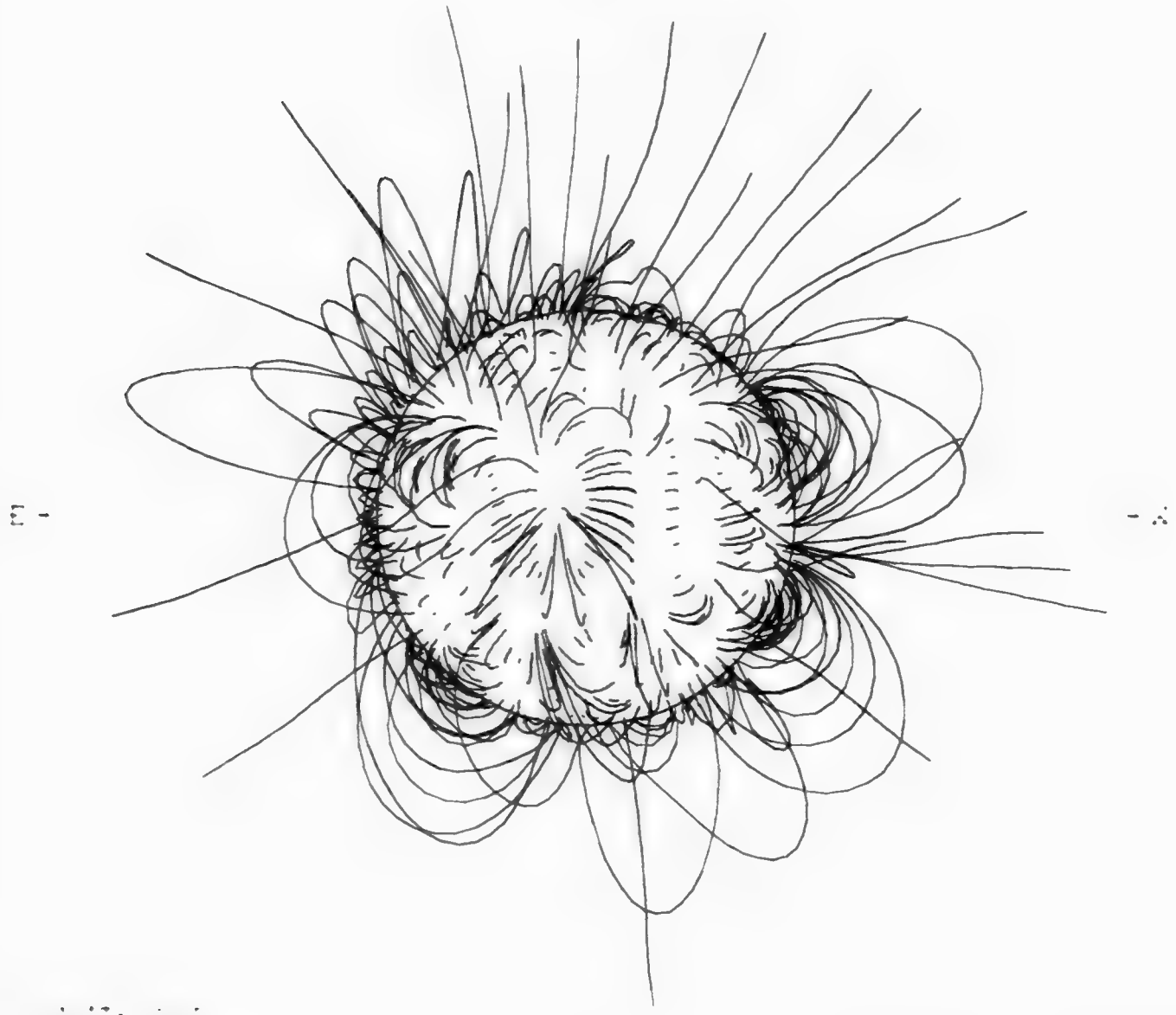
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



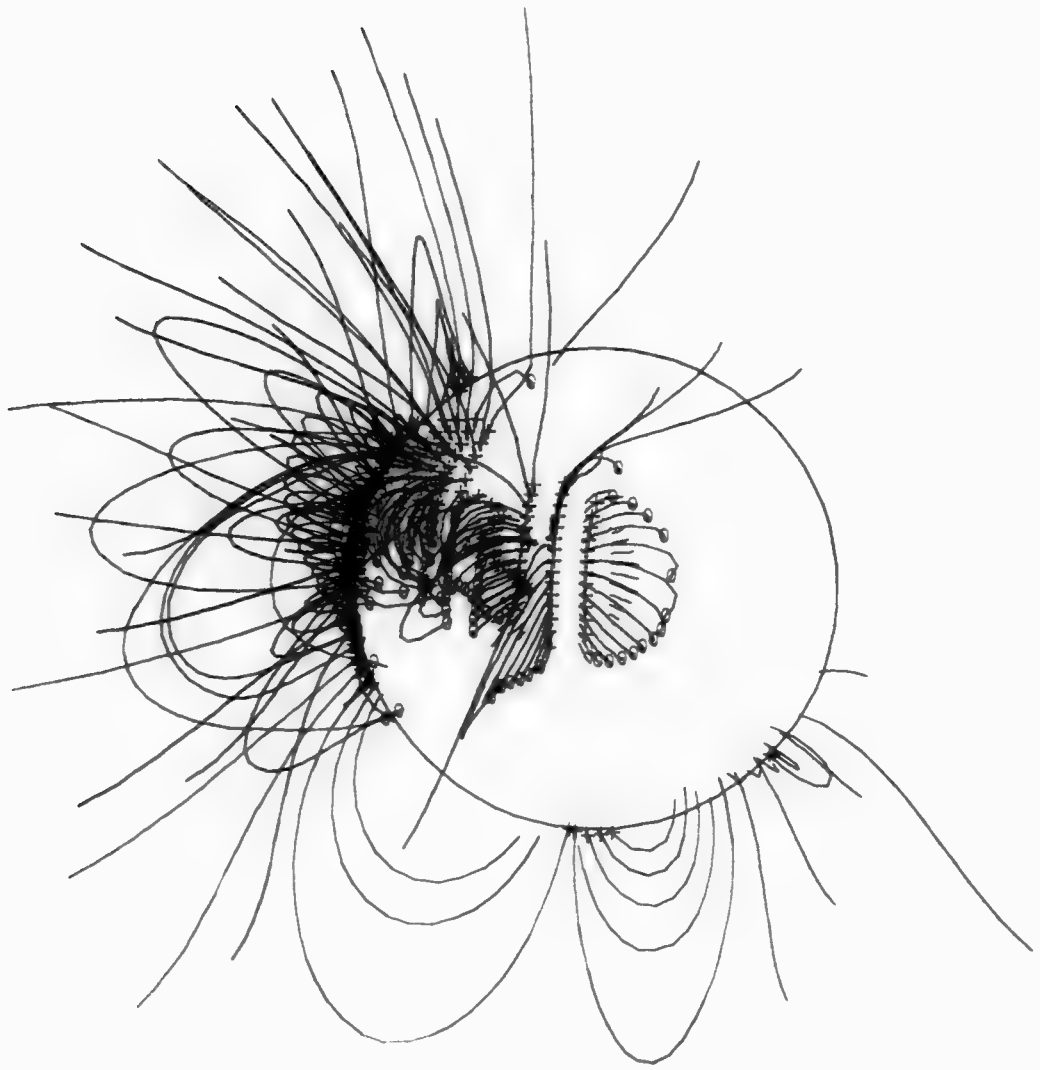
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



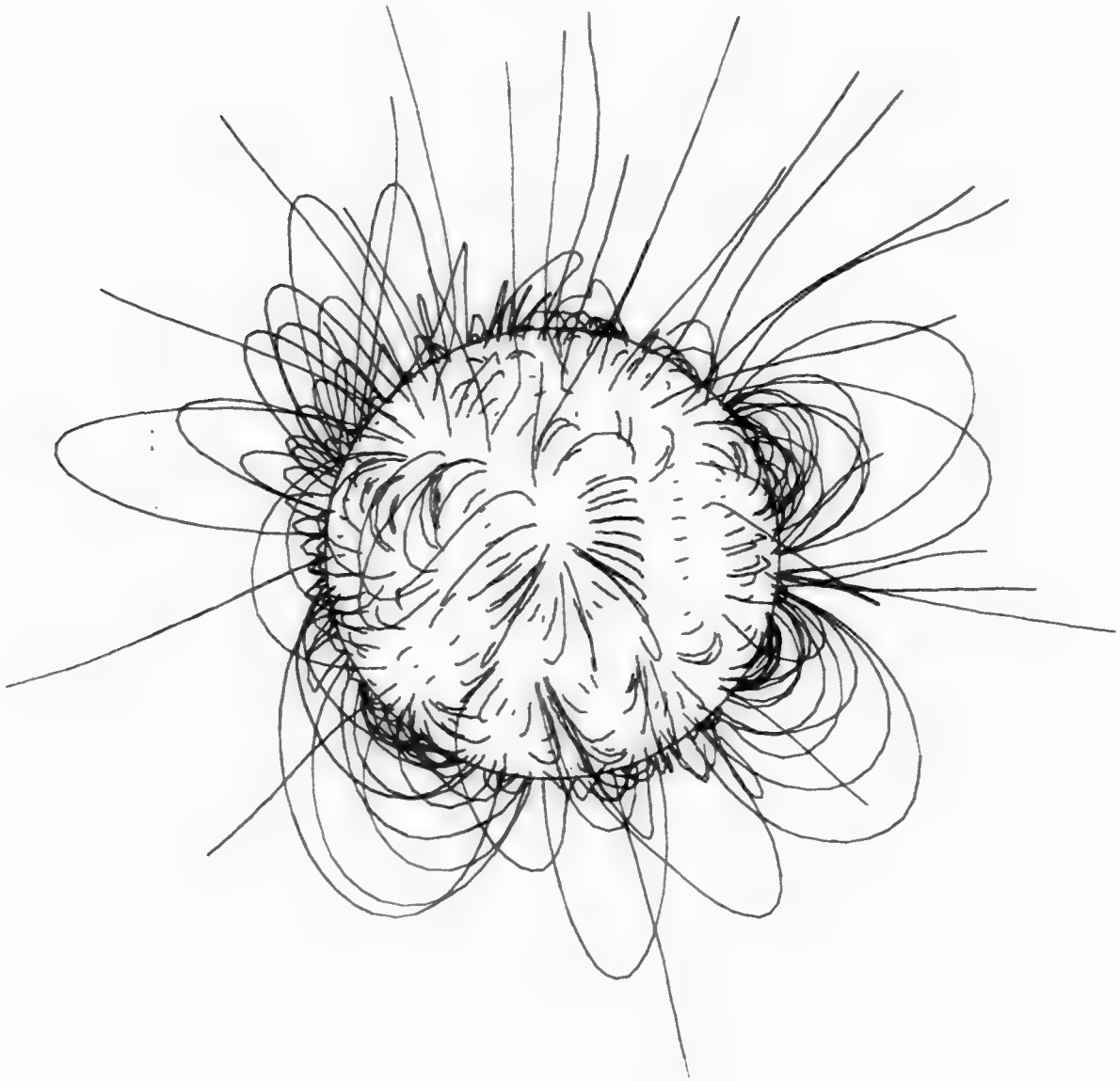
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



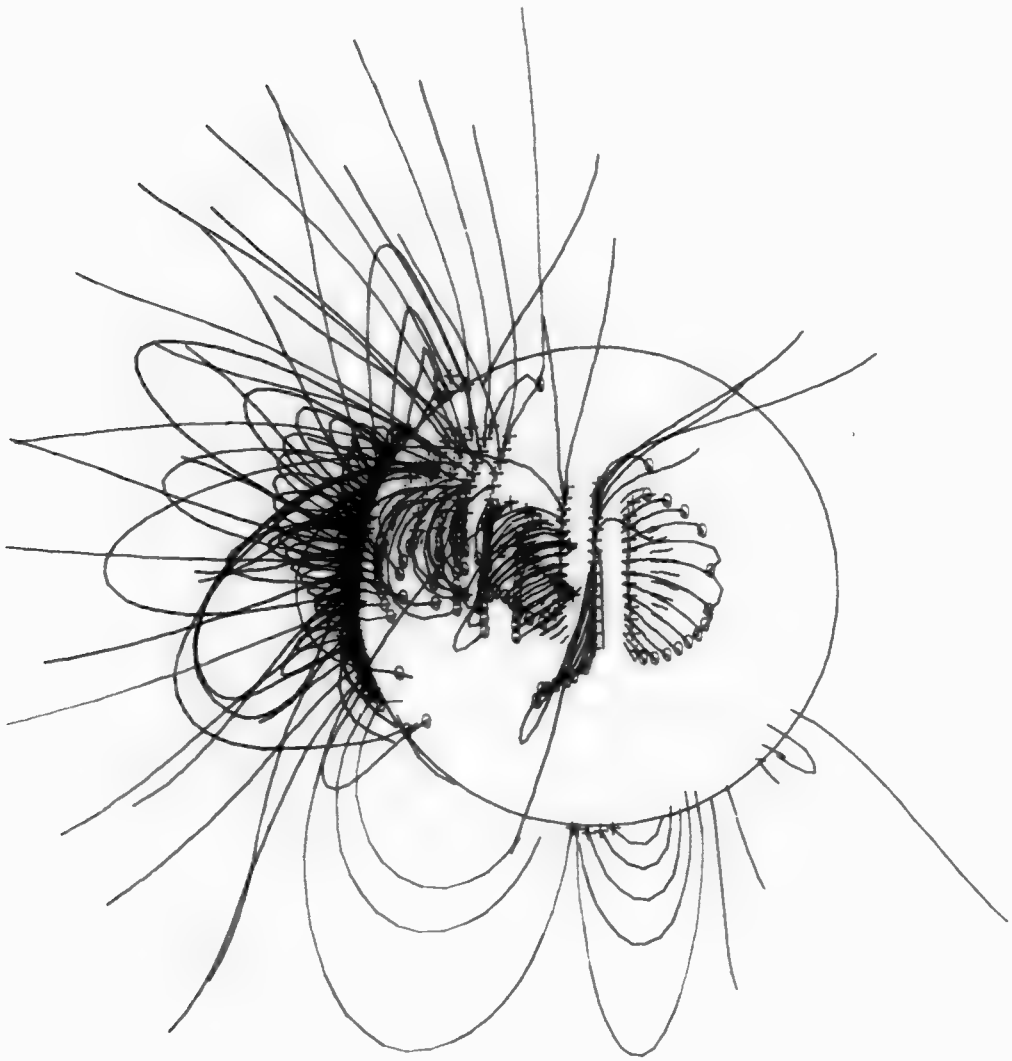
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



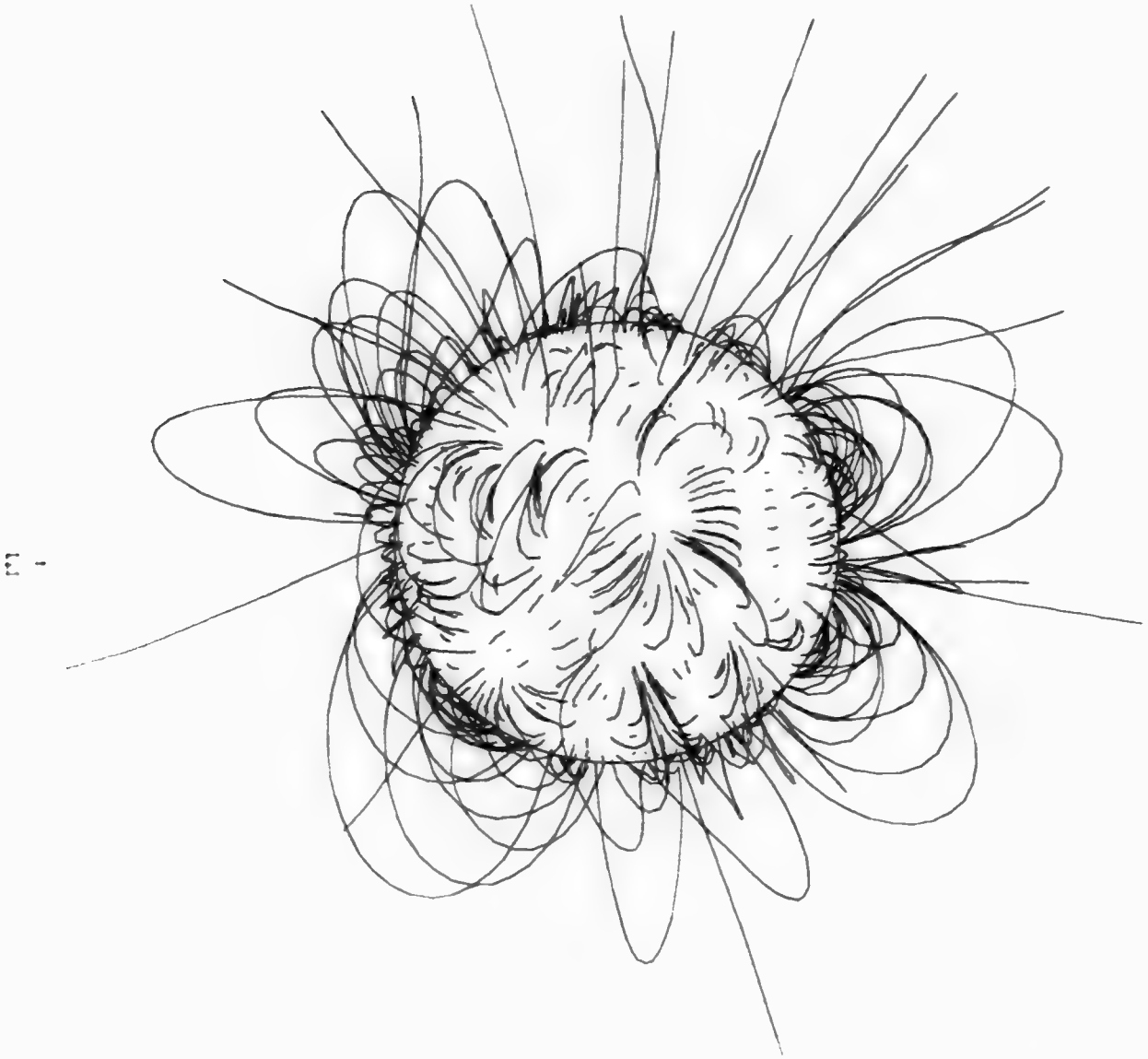
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



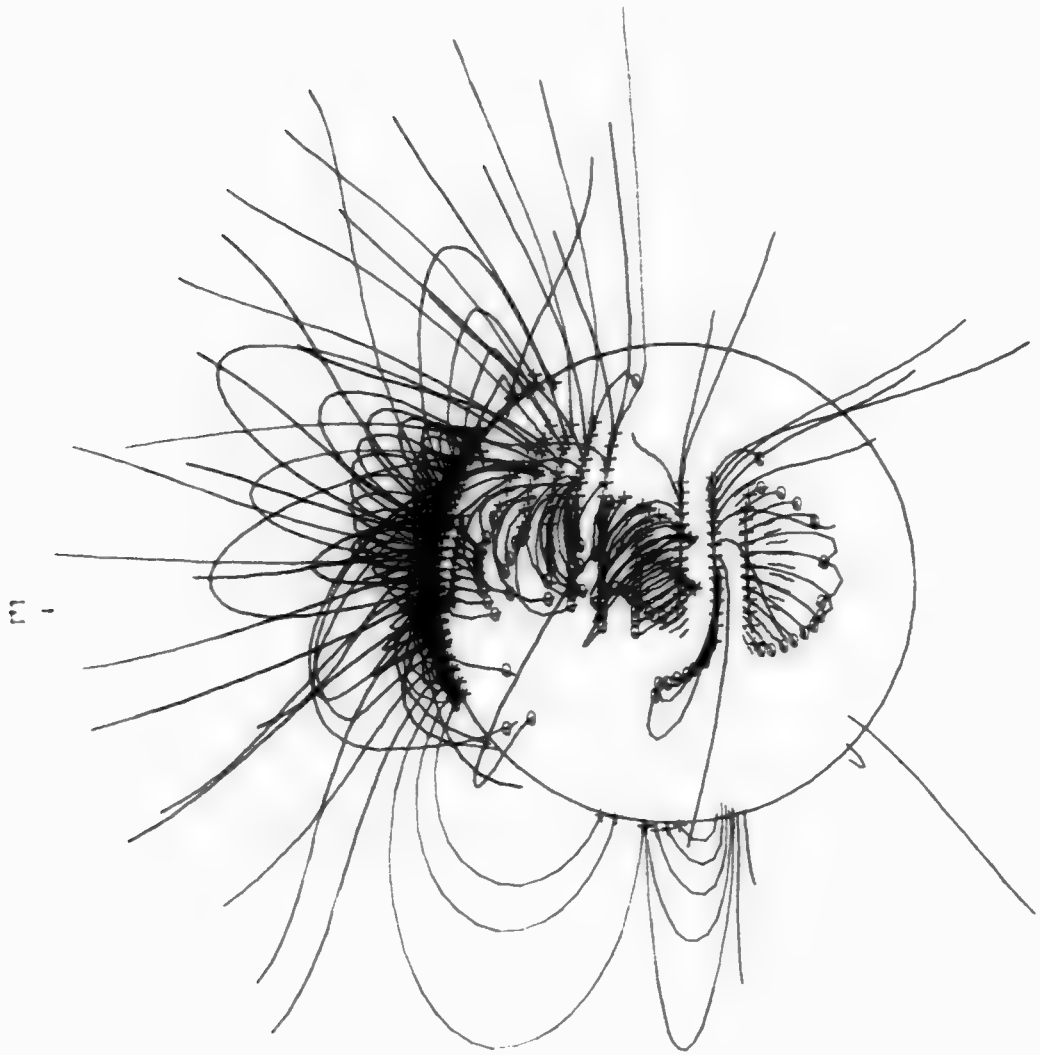
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



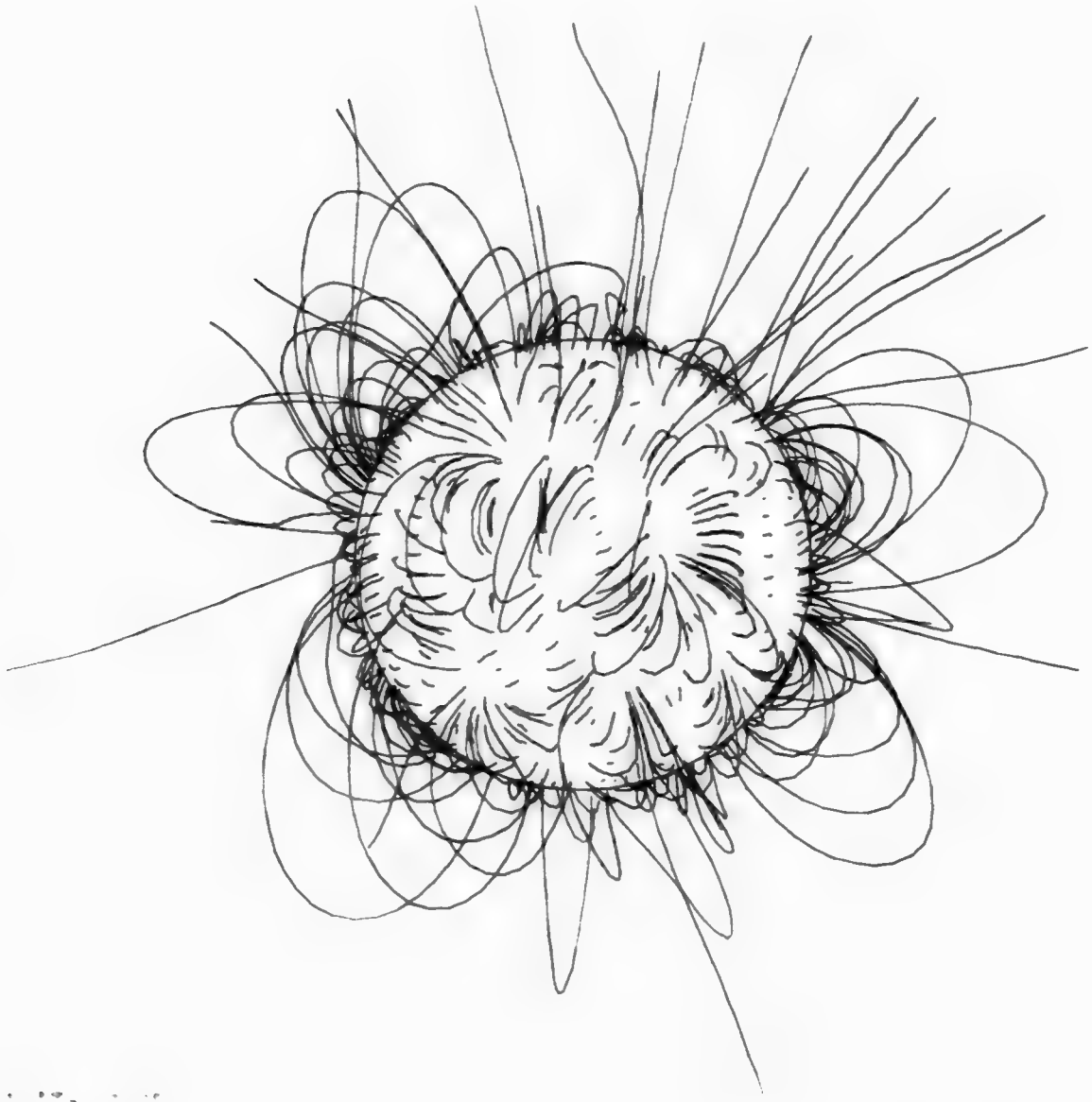
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



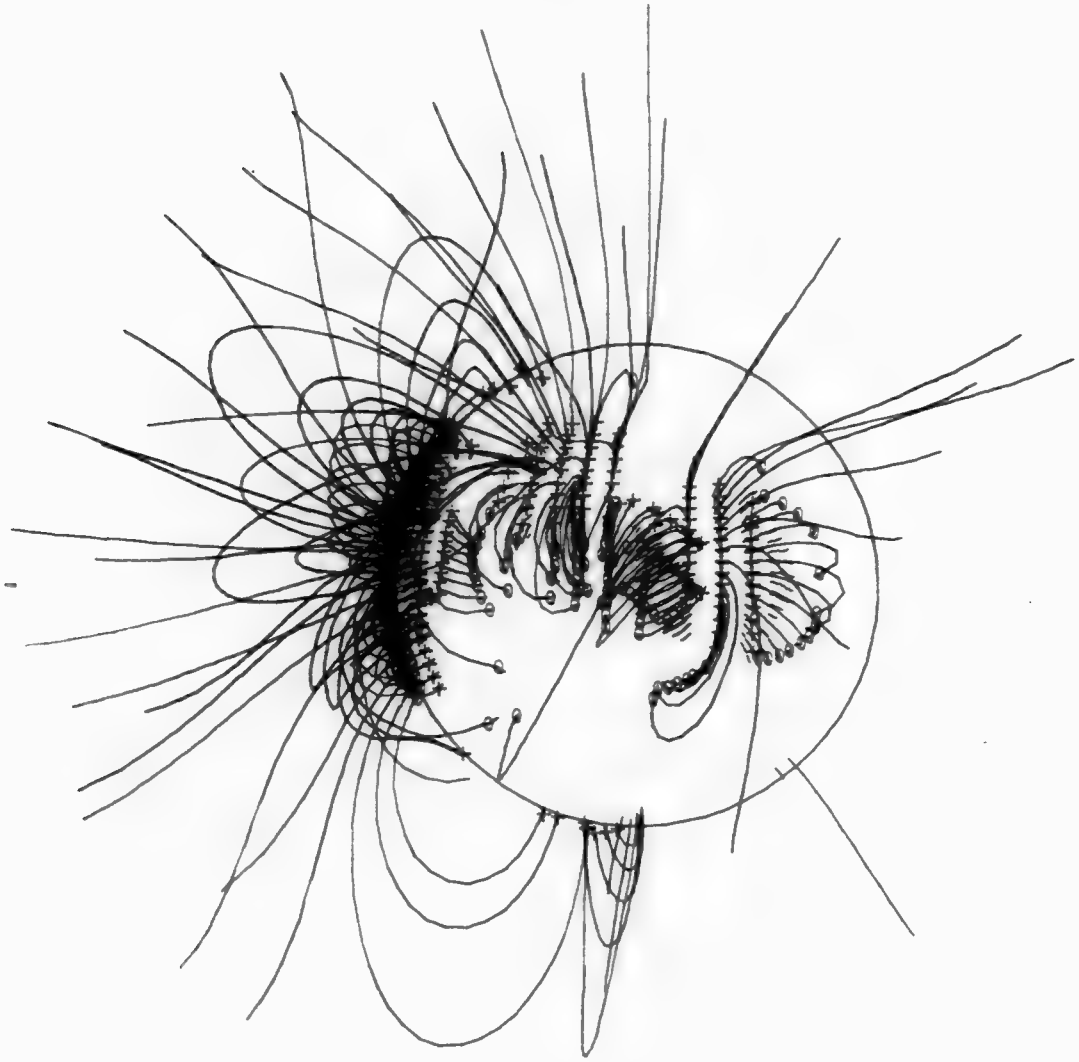
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



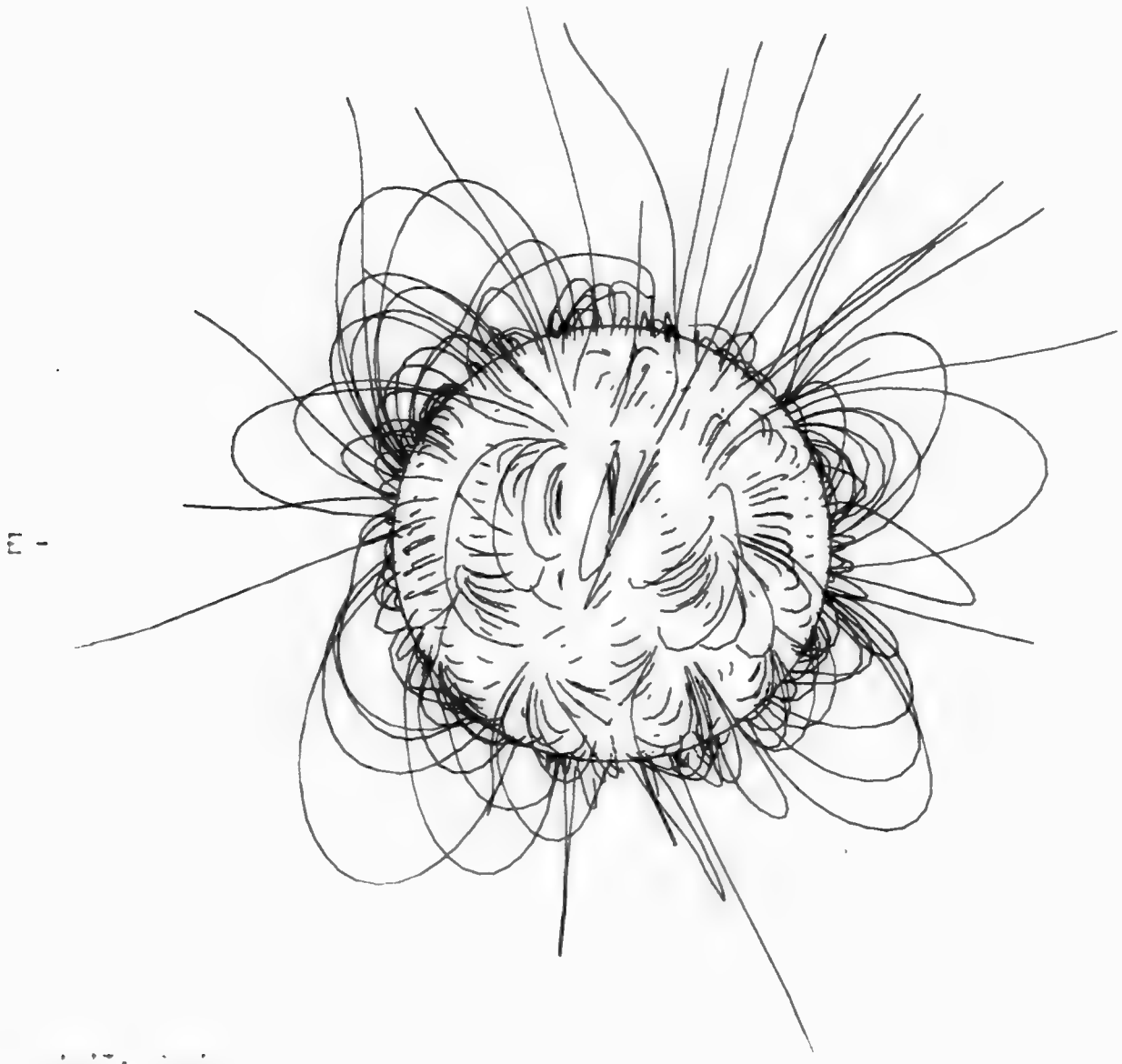
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



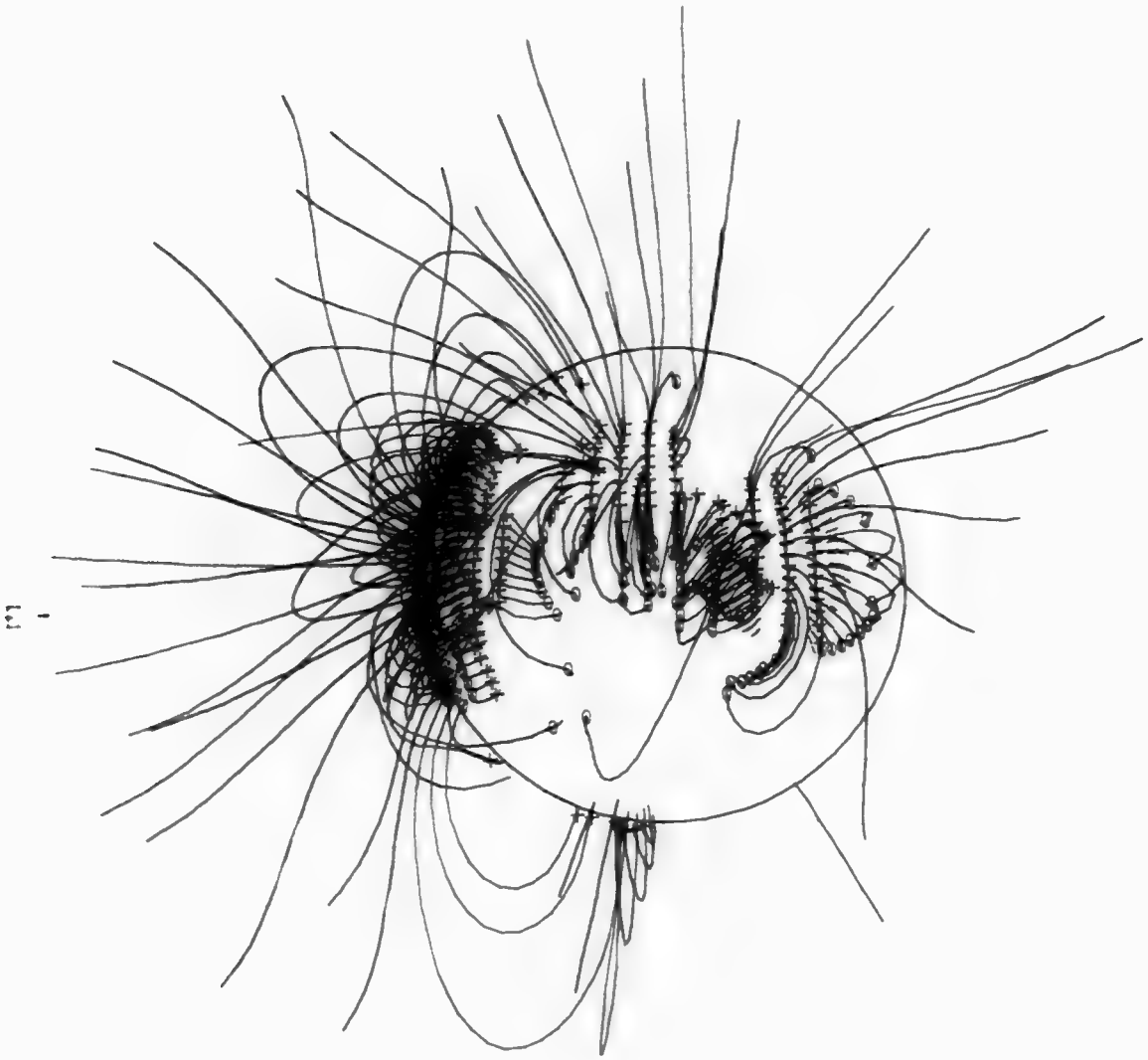
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



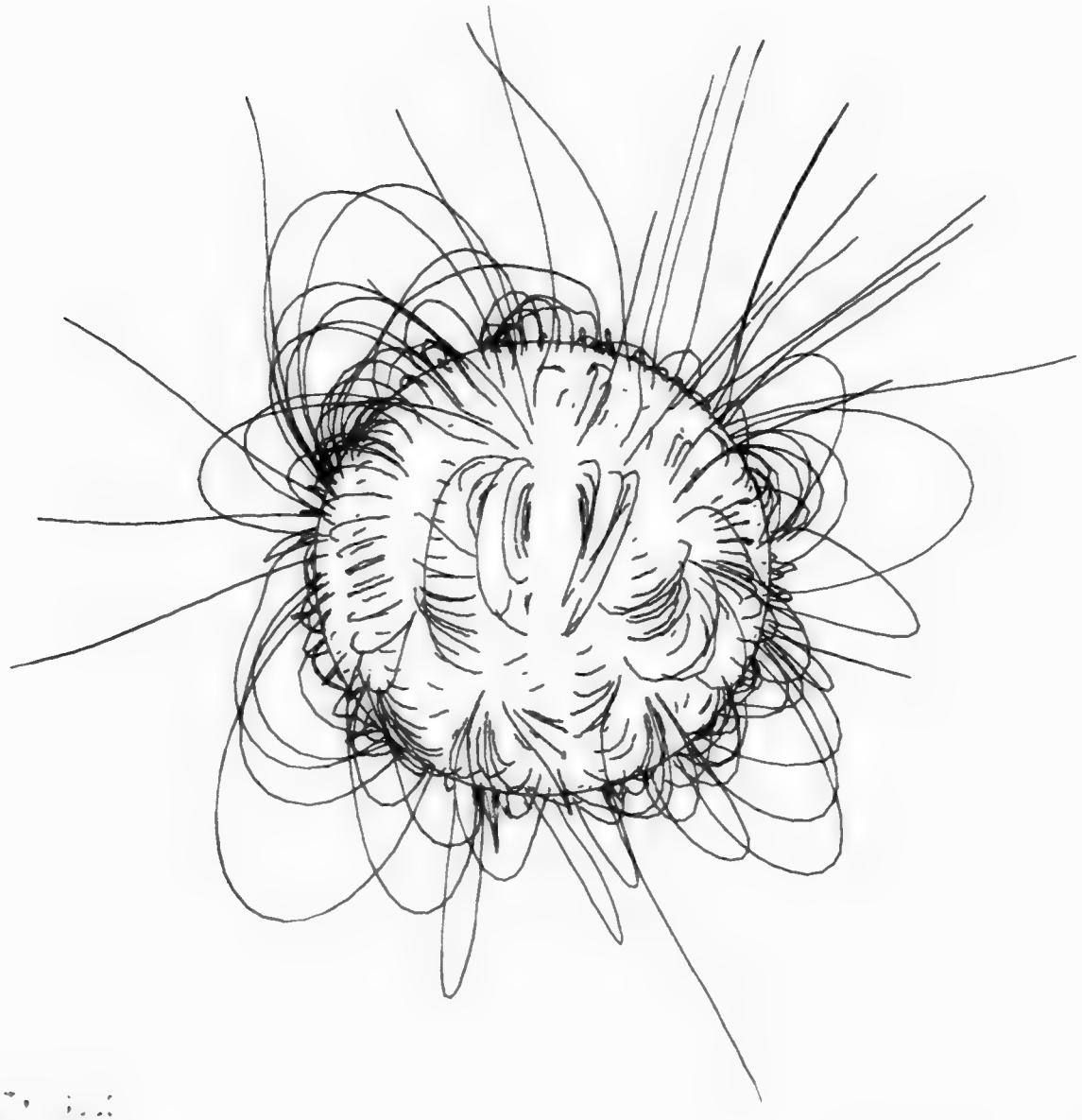
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



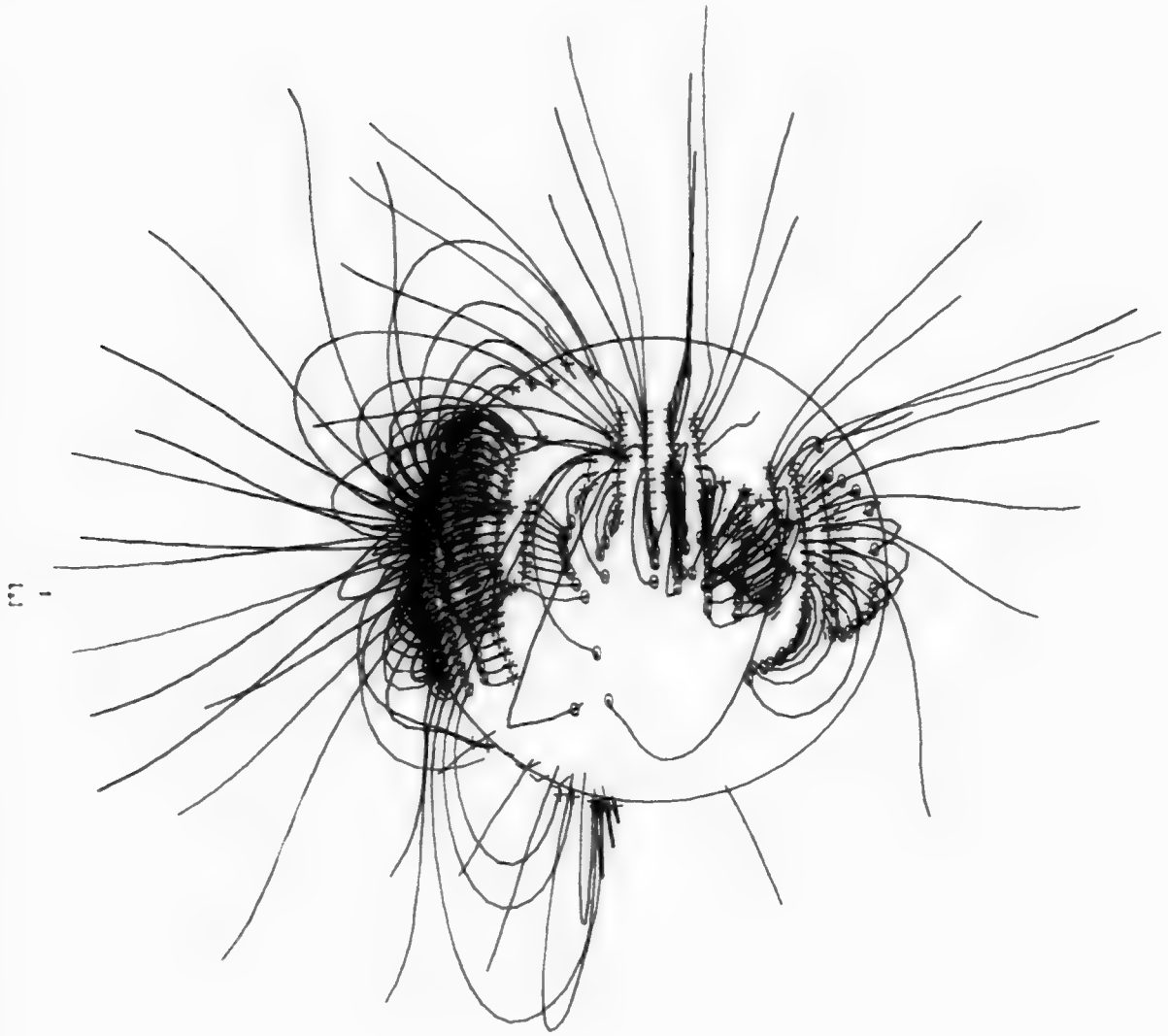
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



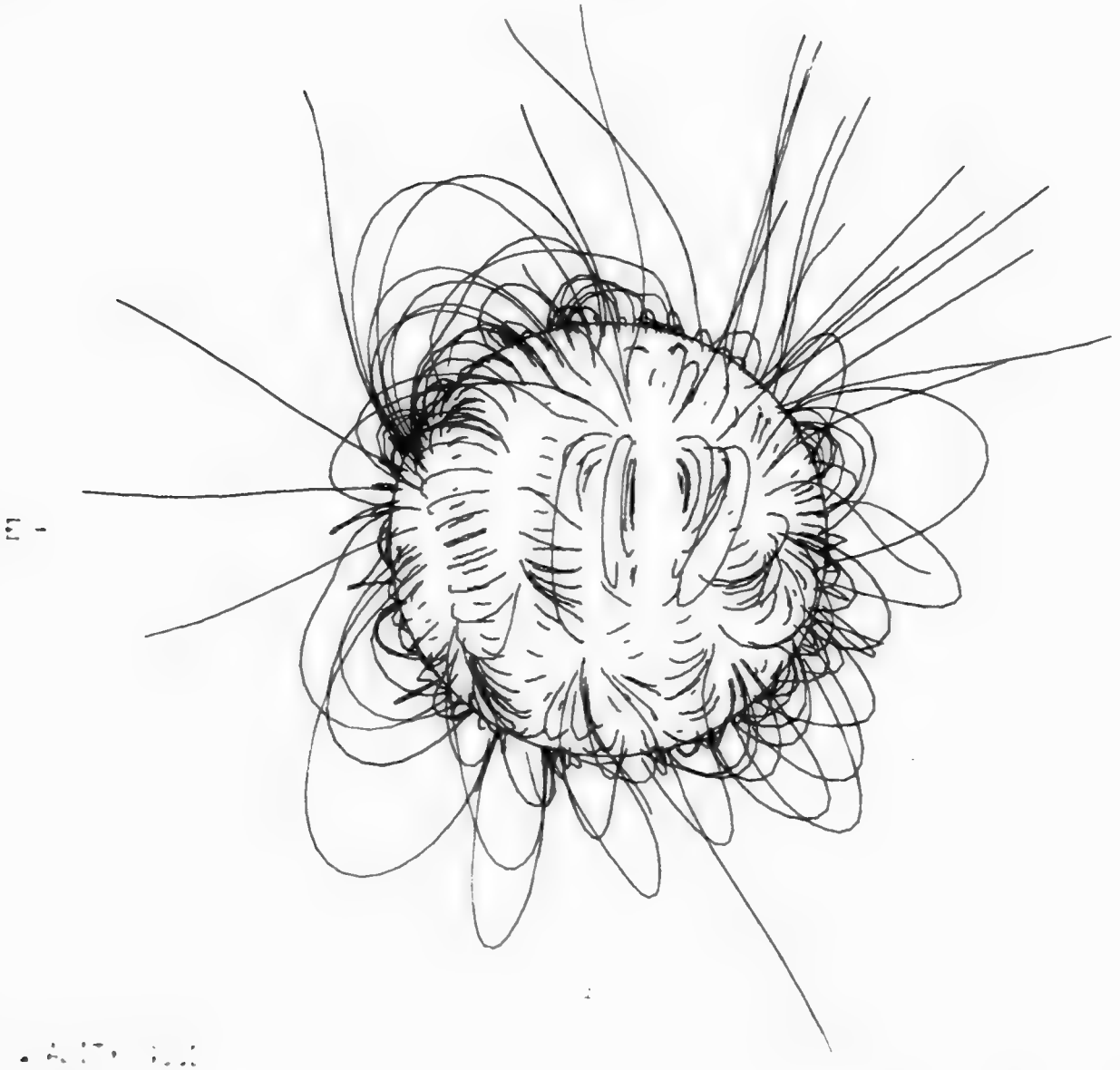
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



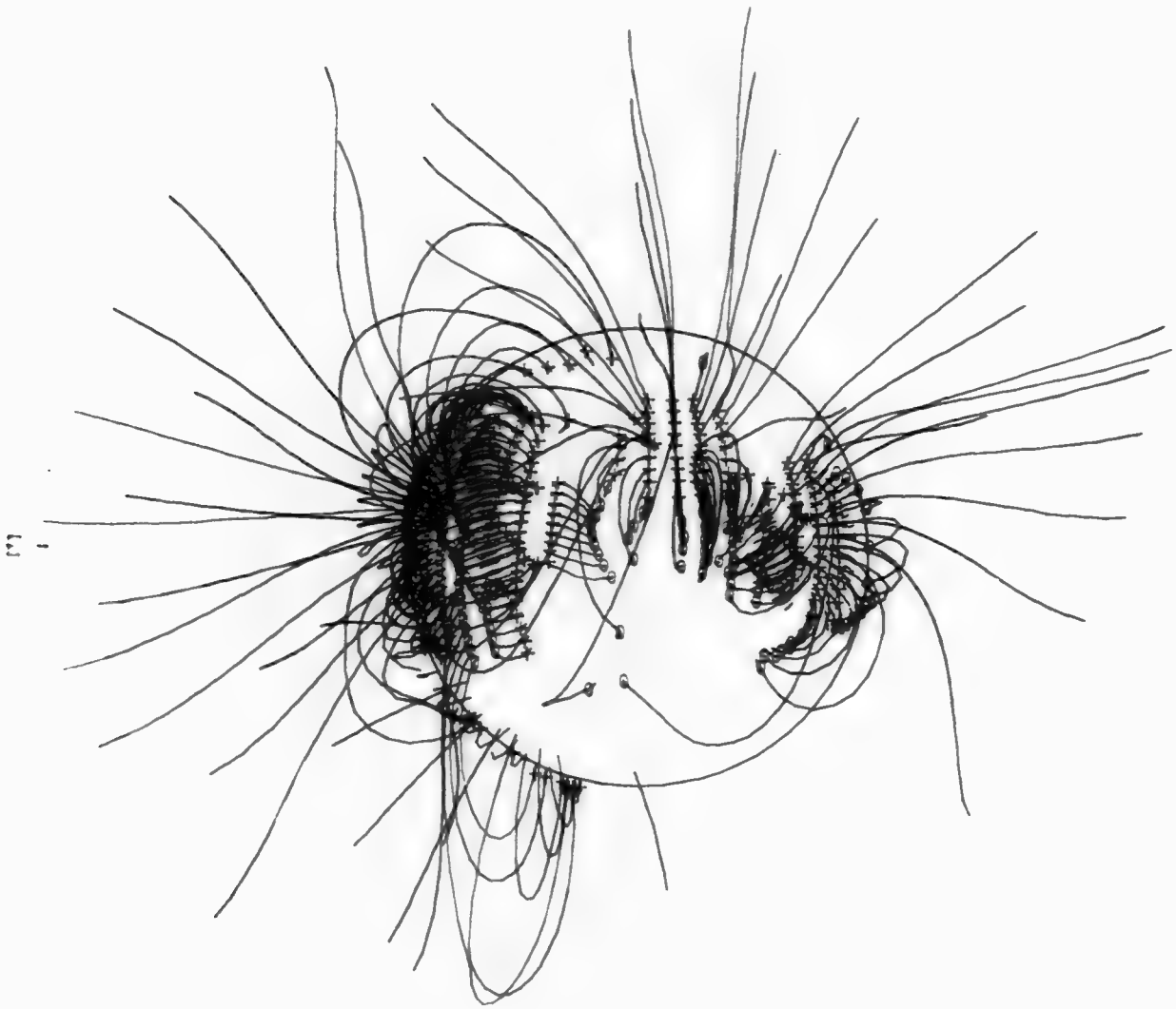
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



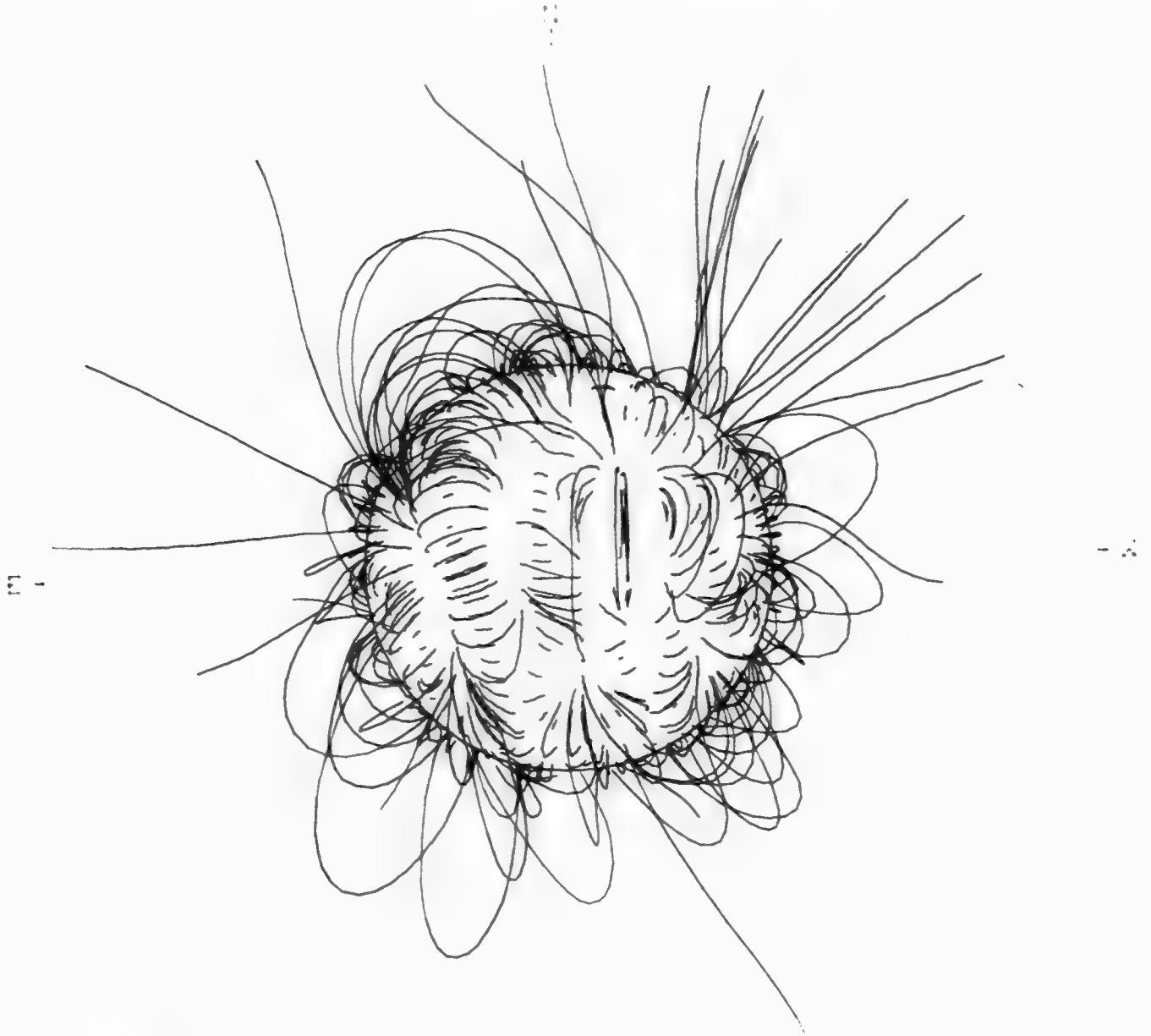
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



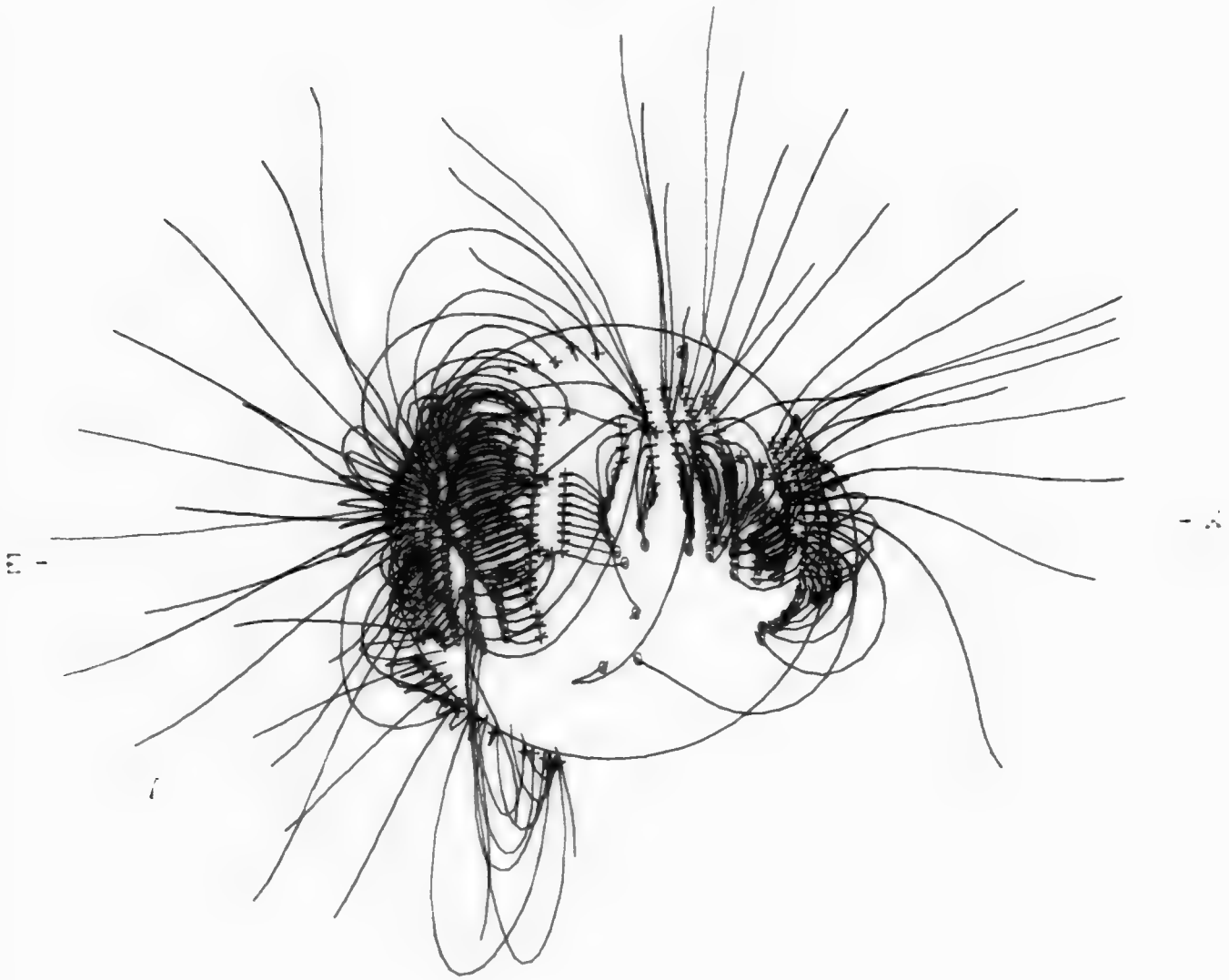
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

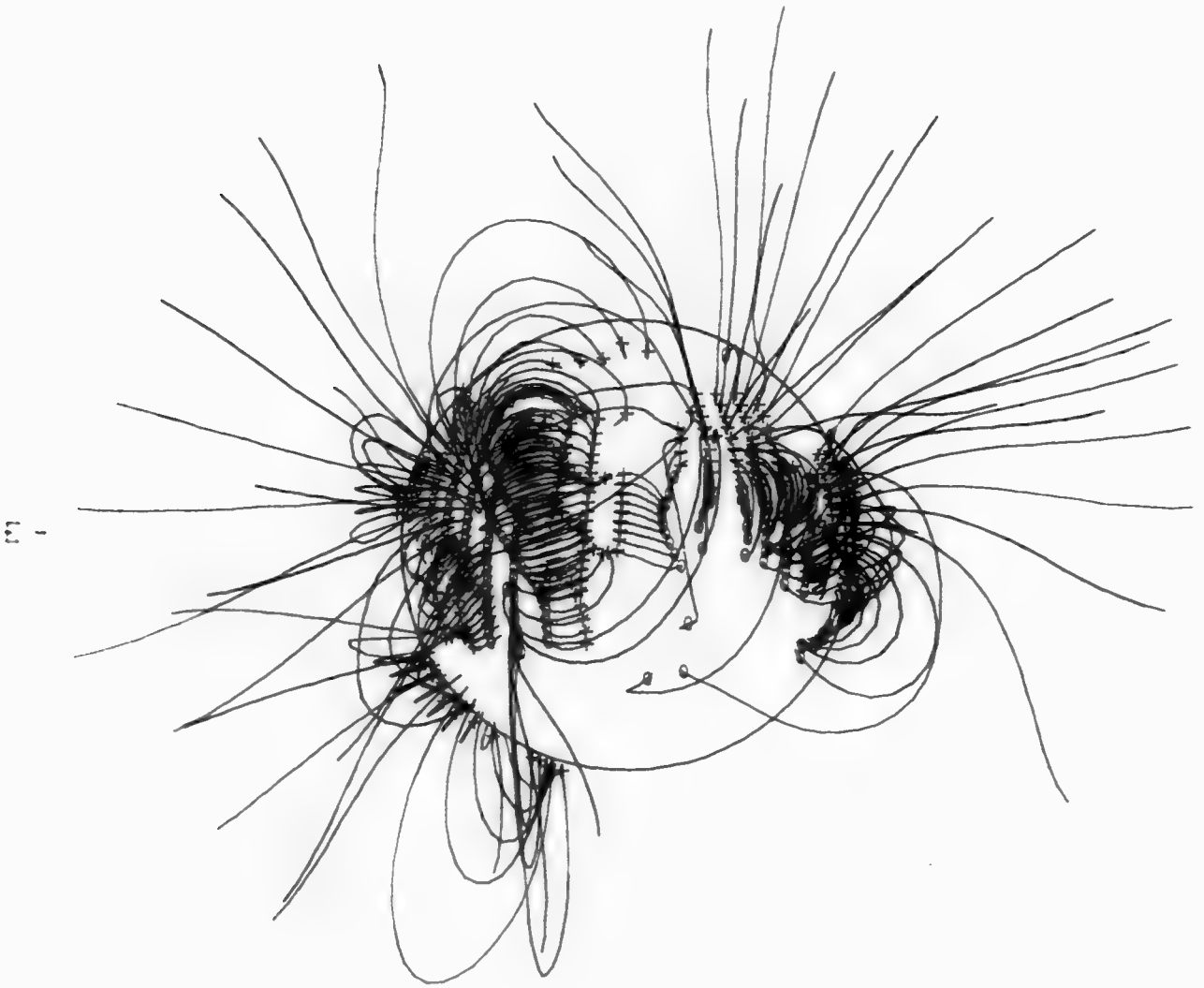


HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

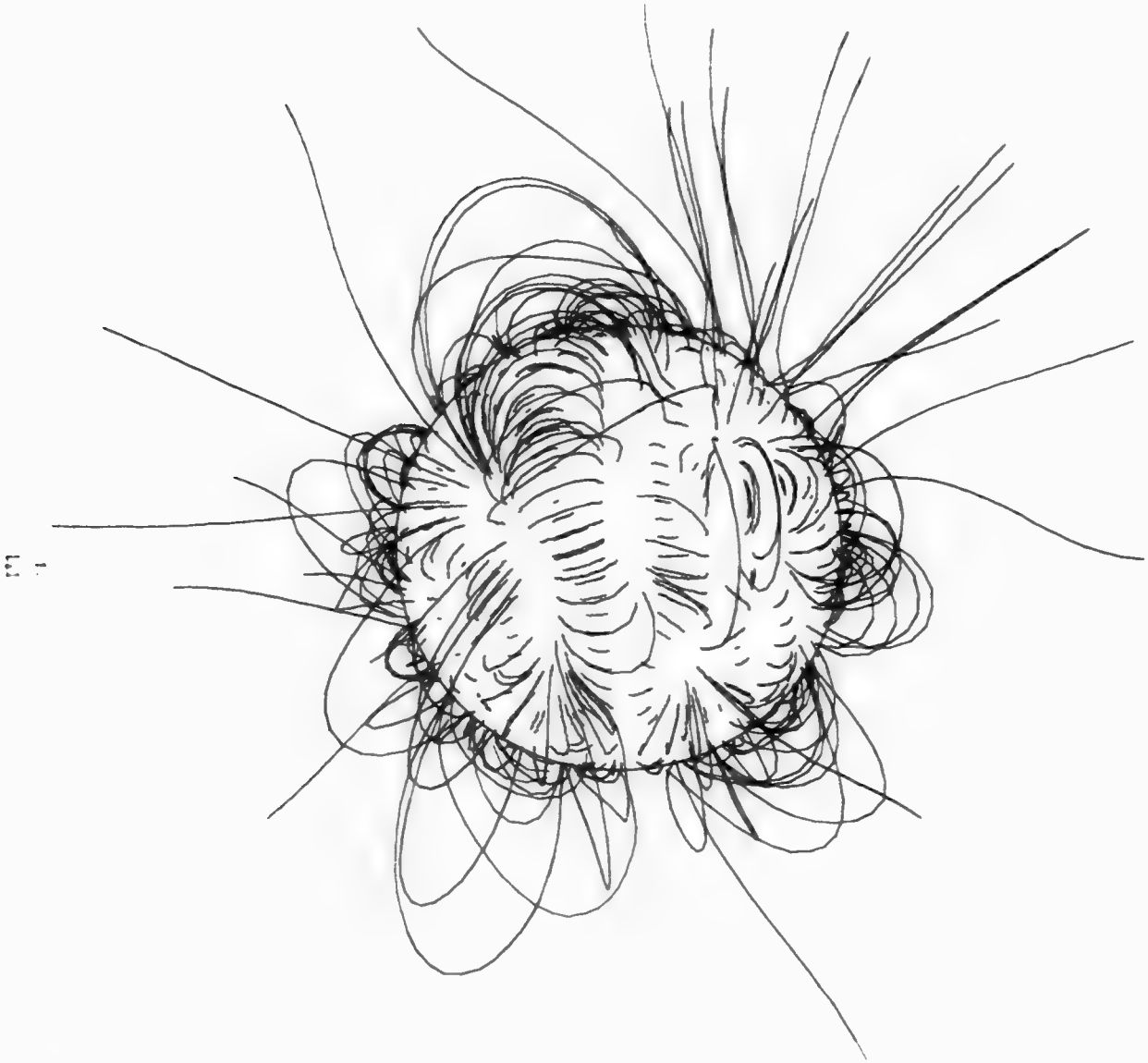


HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

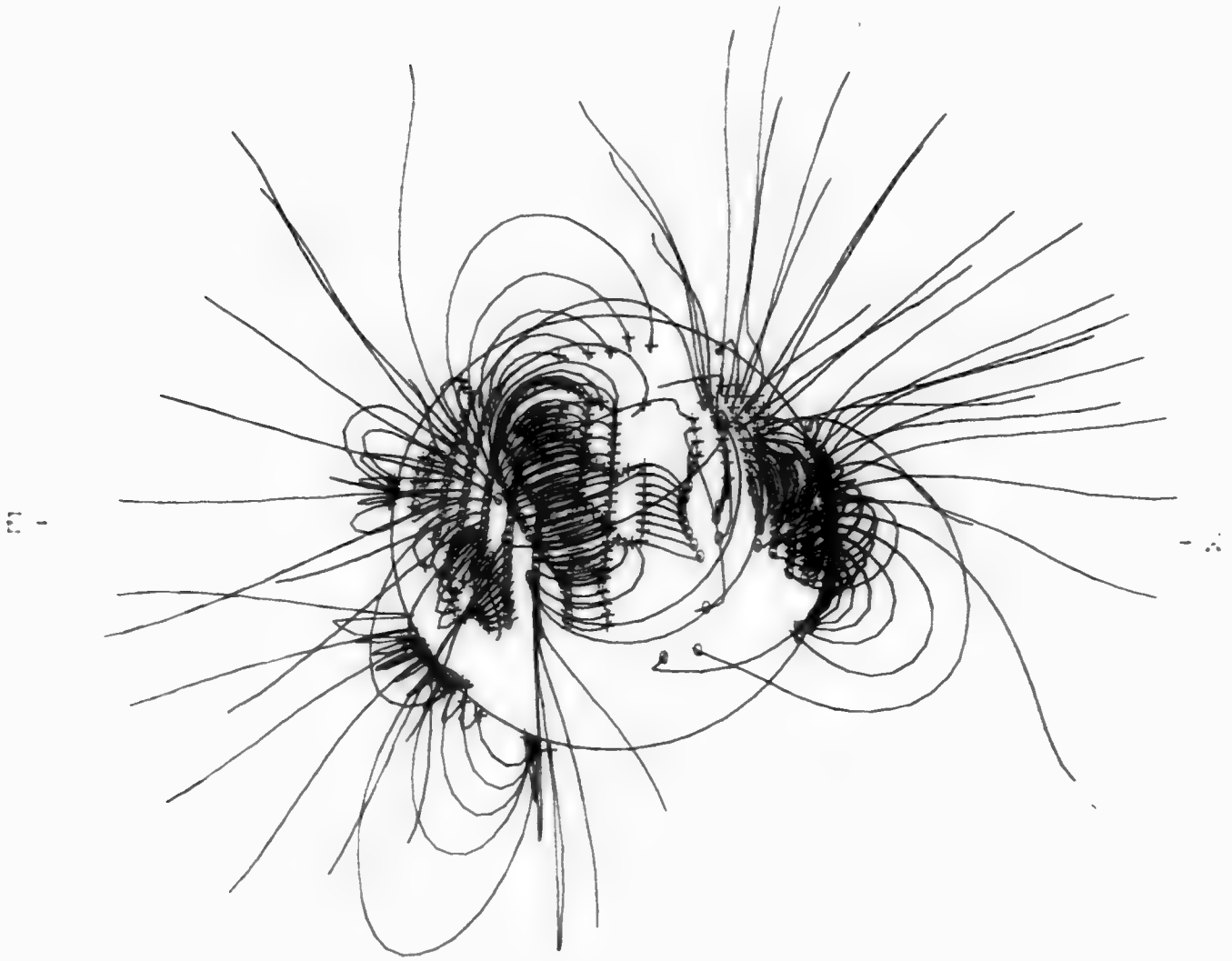
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



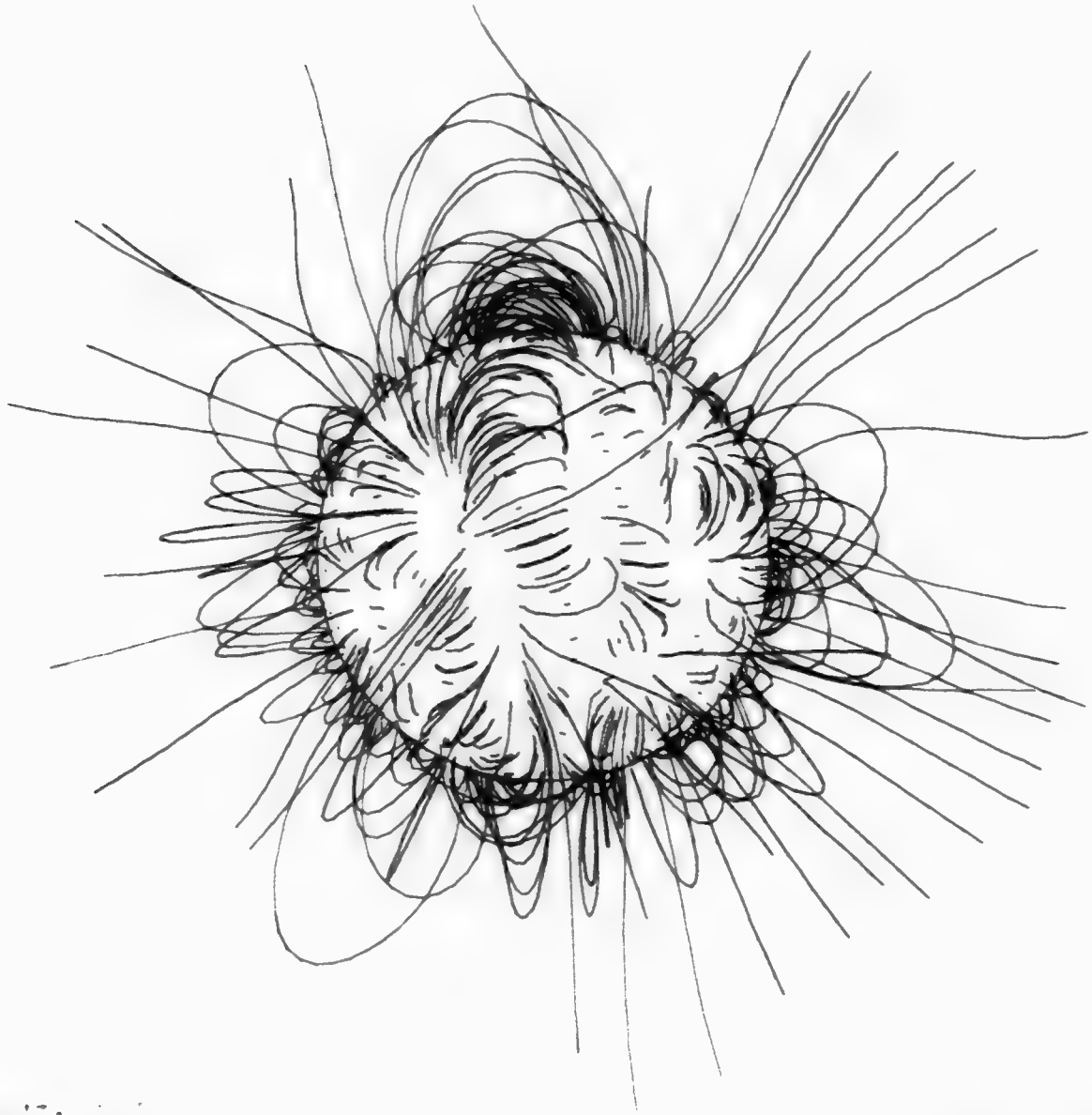
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



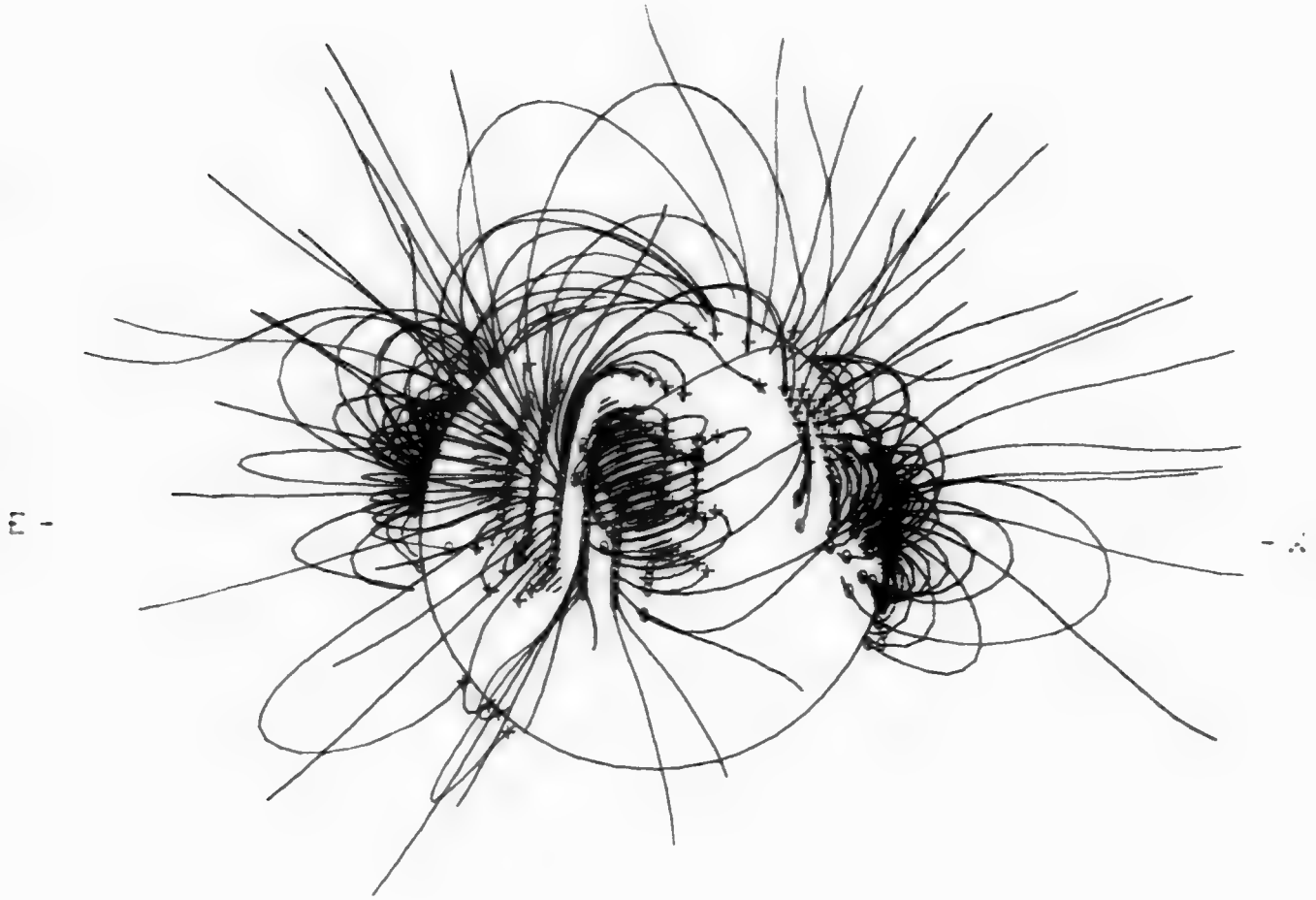
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



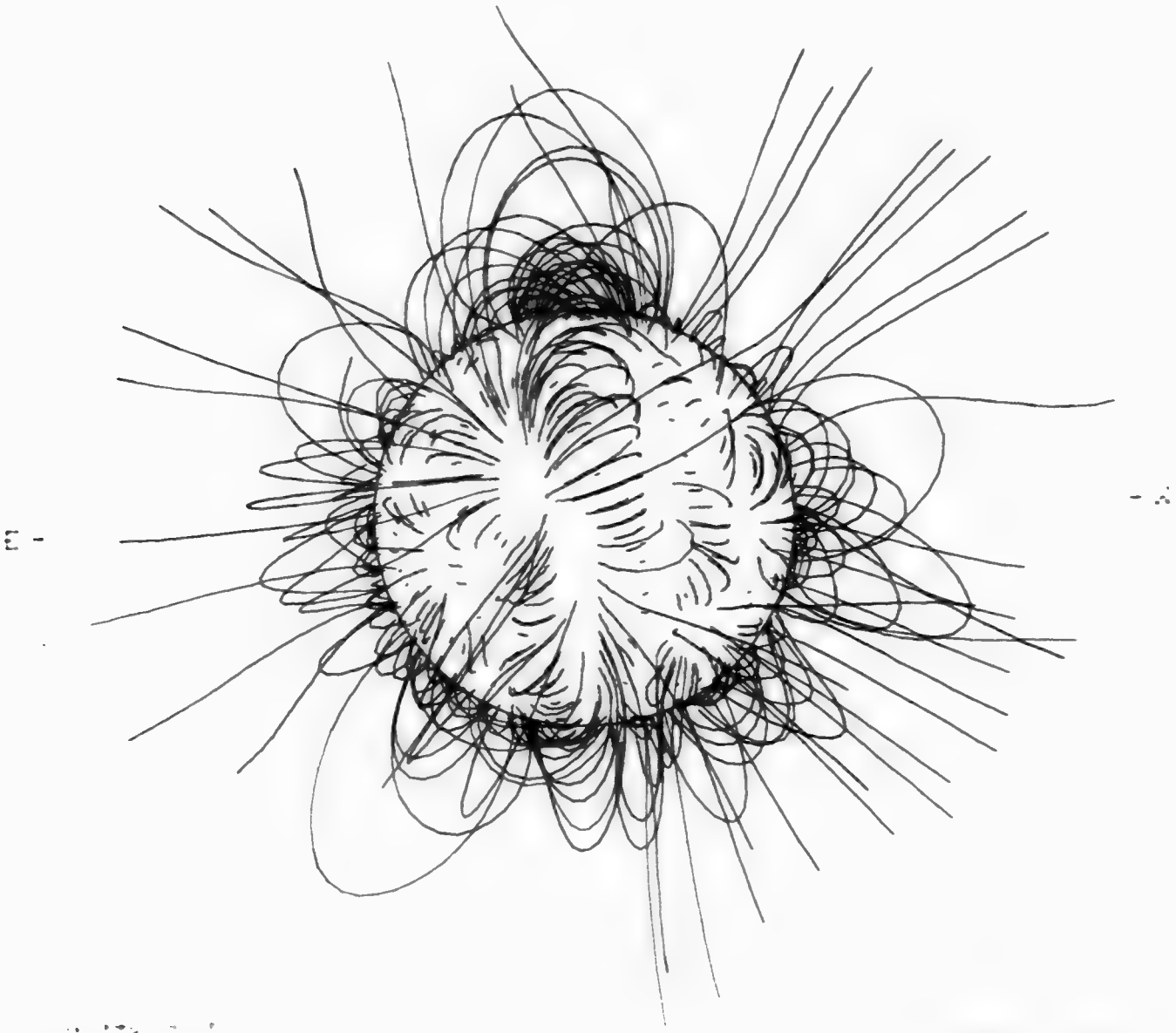
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



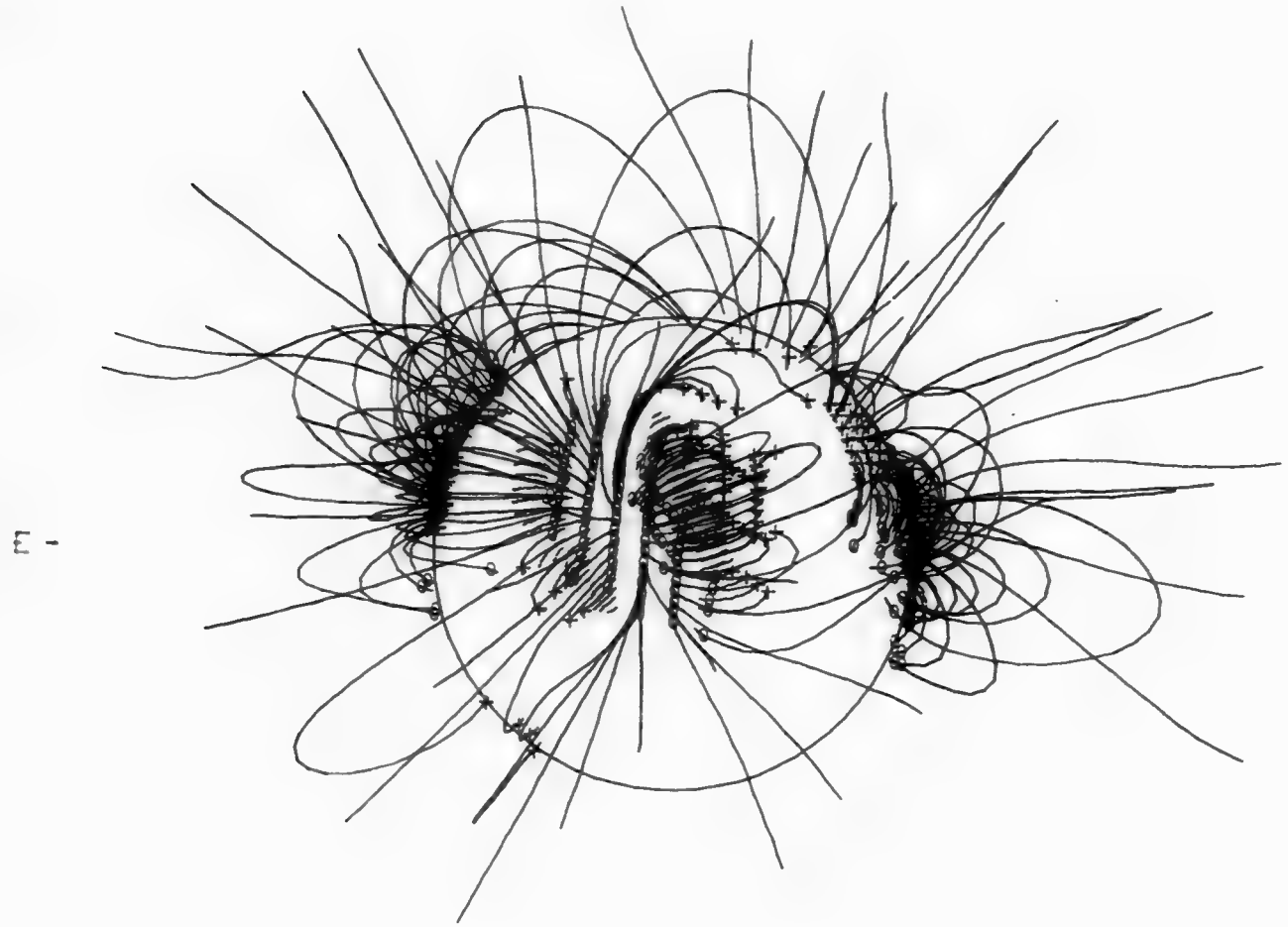
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



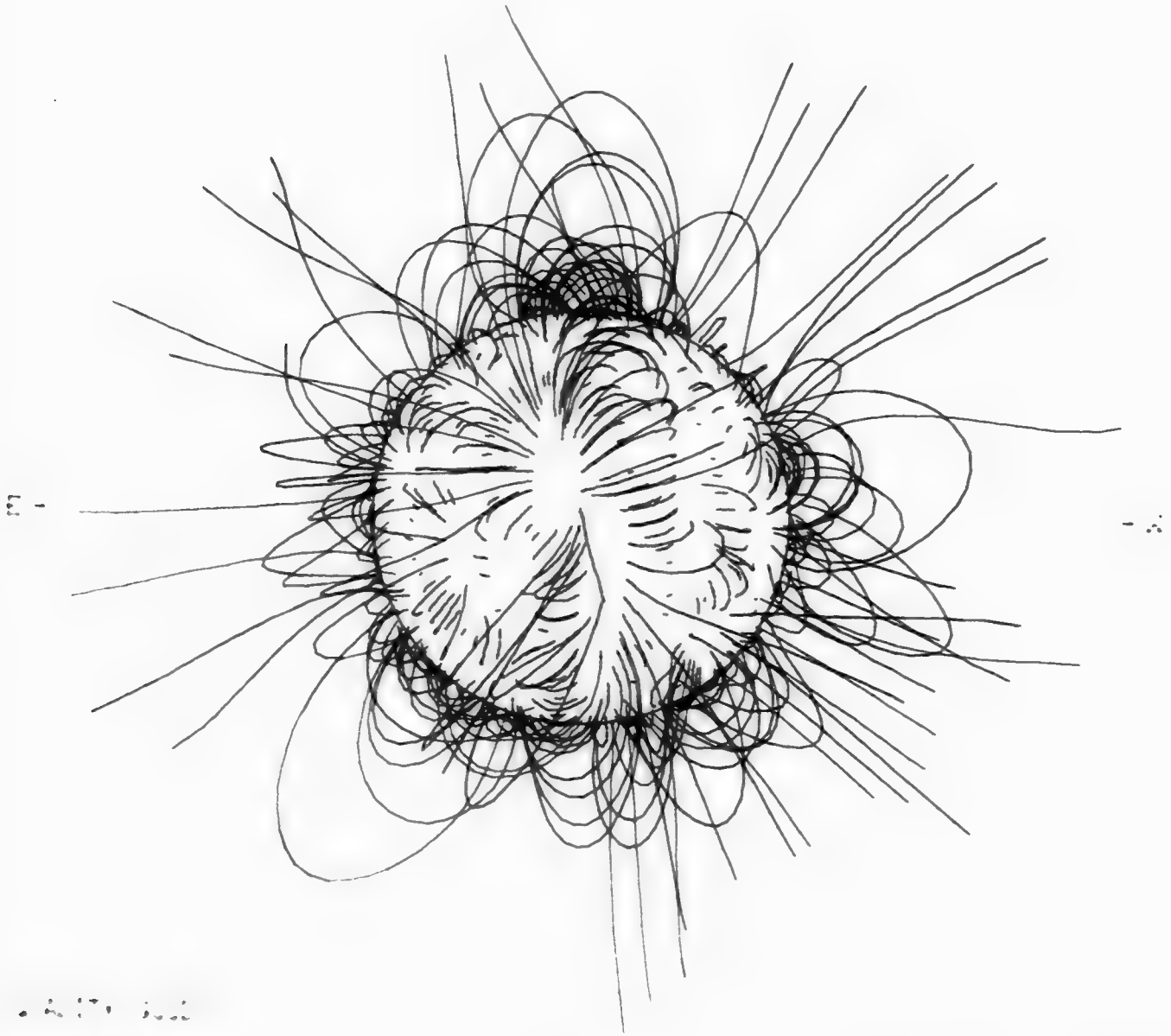
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



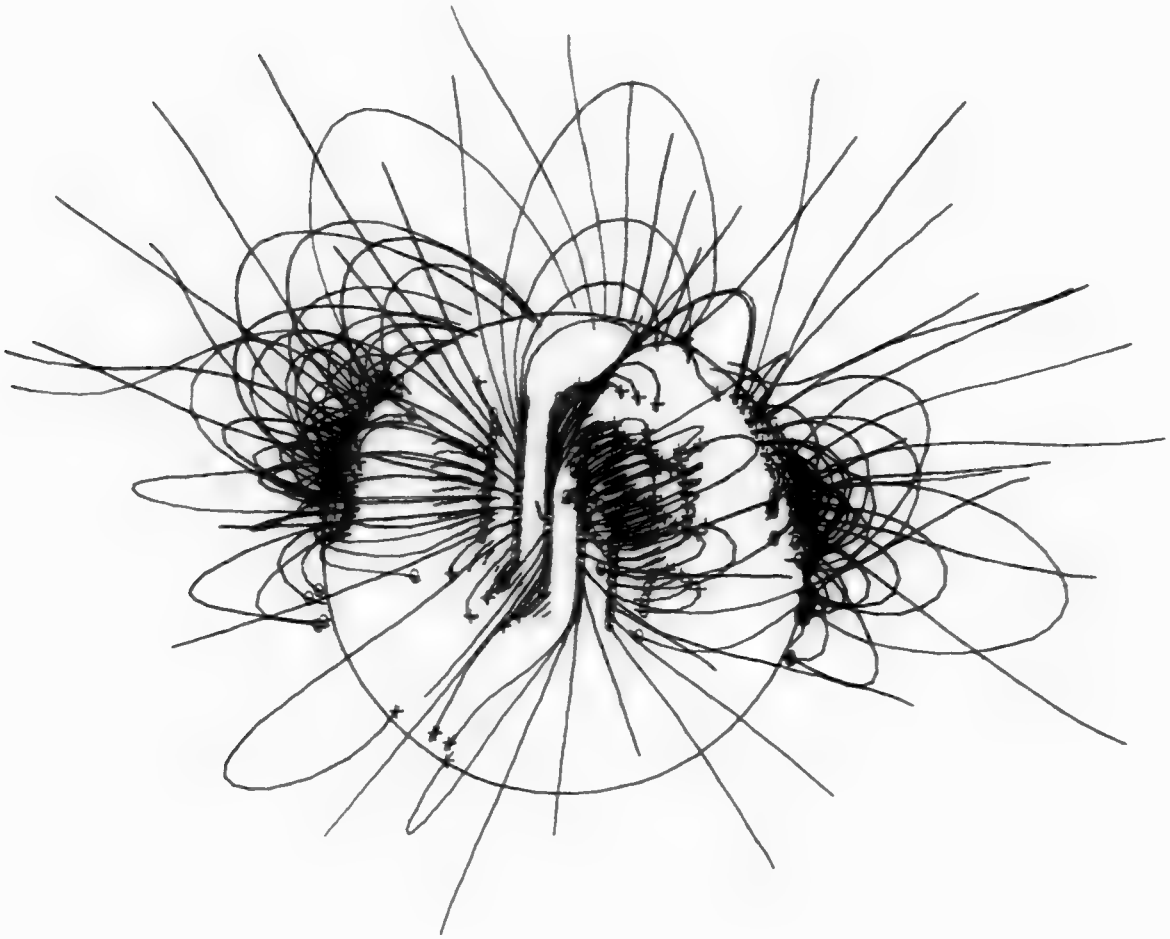
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



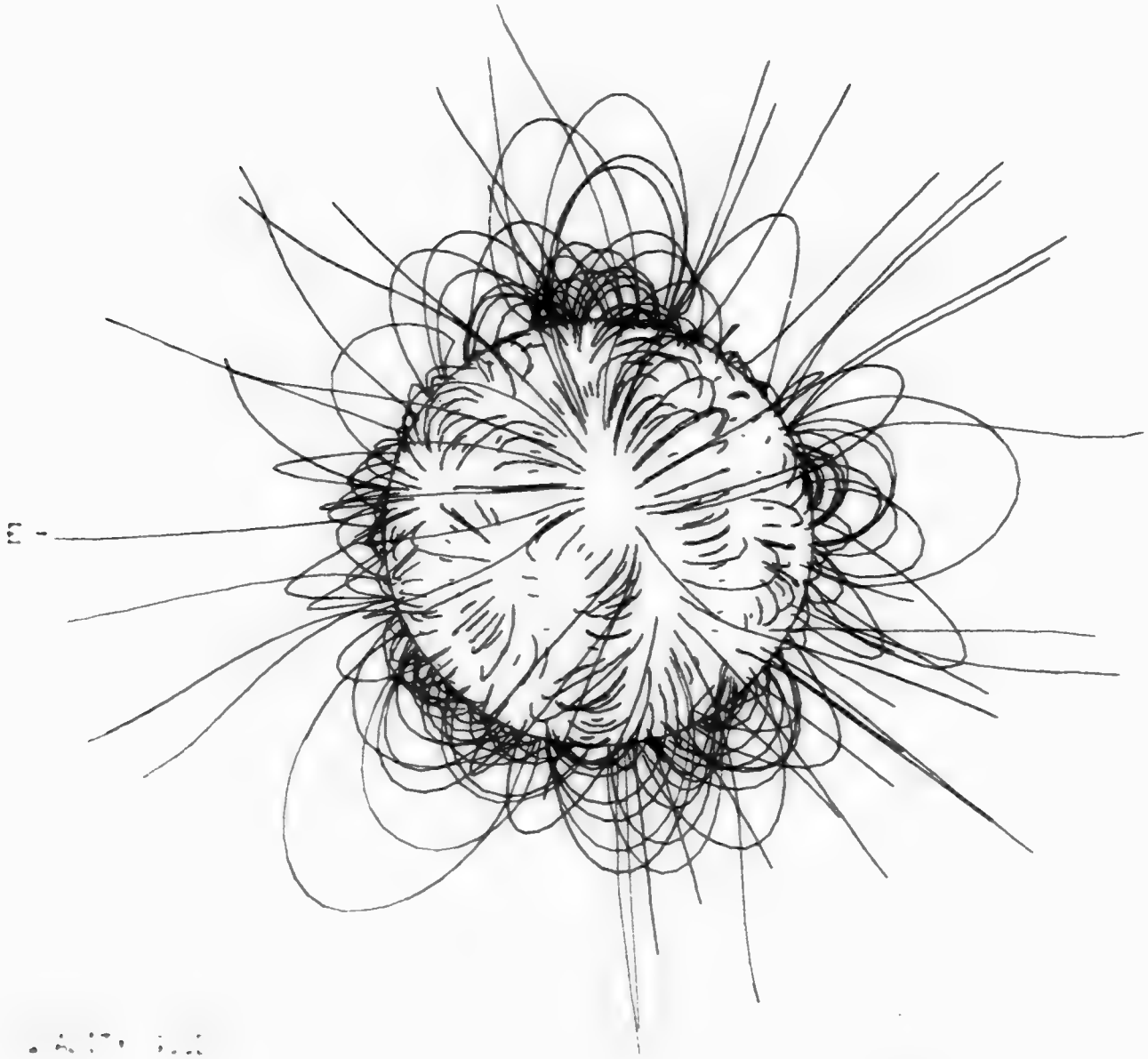
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



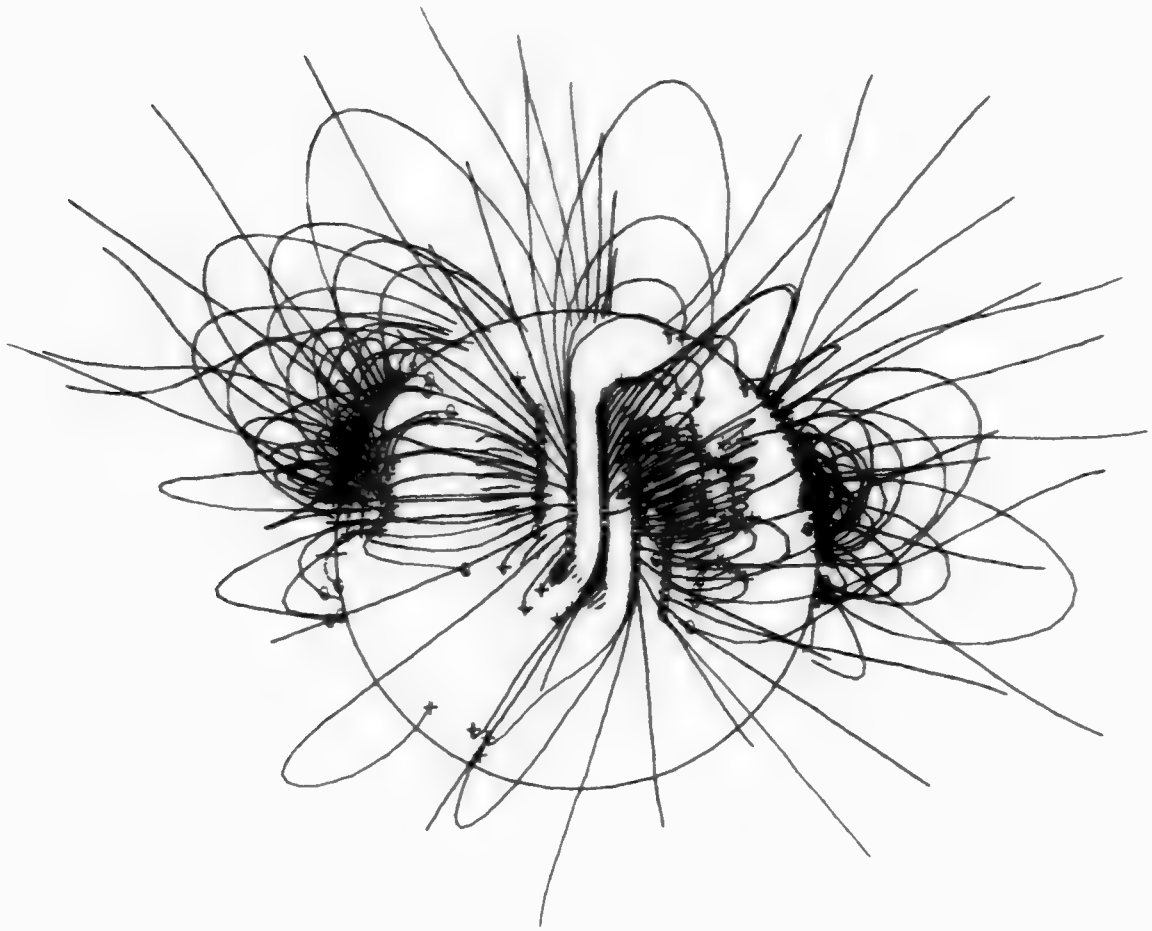
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



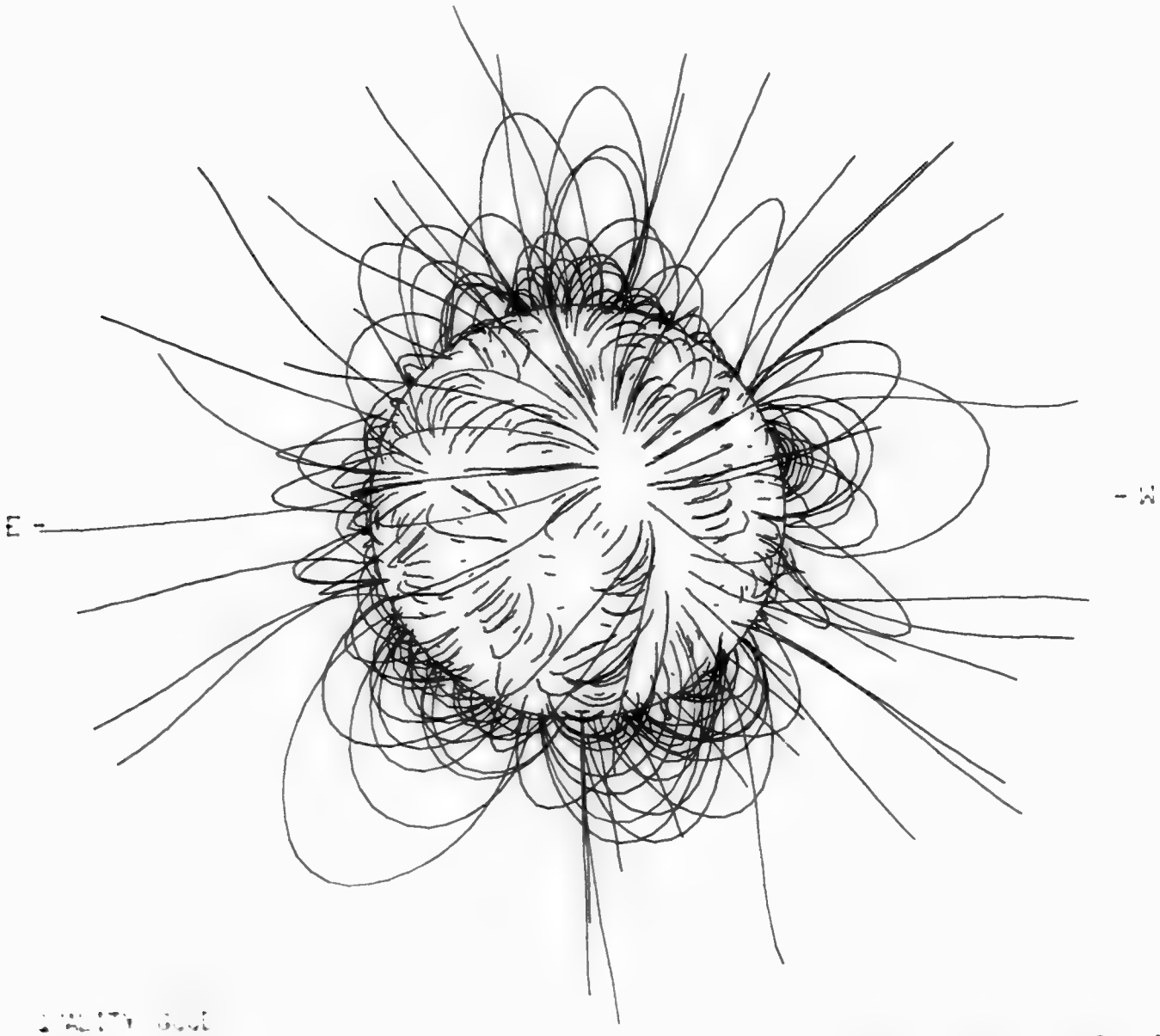
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



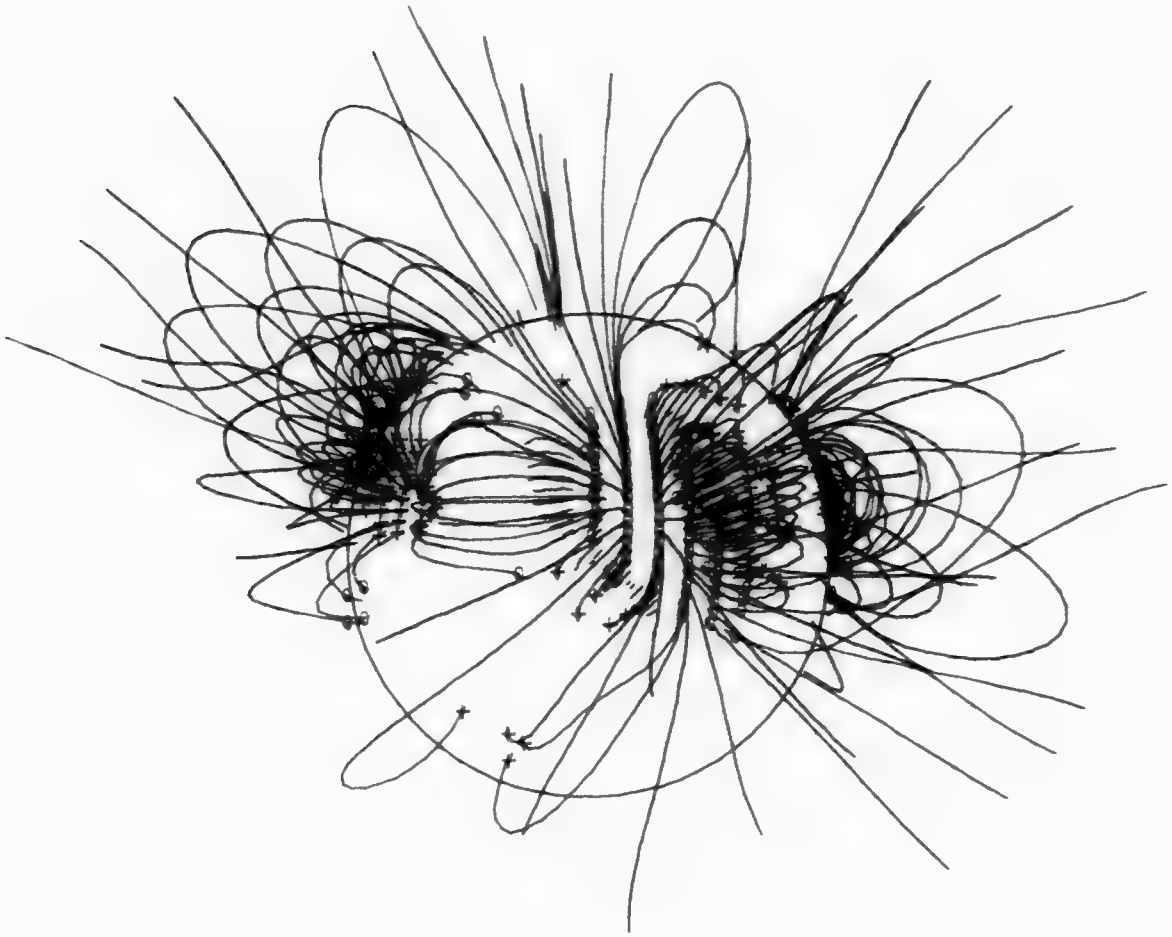
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



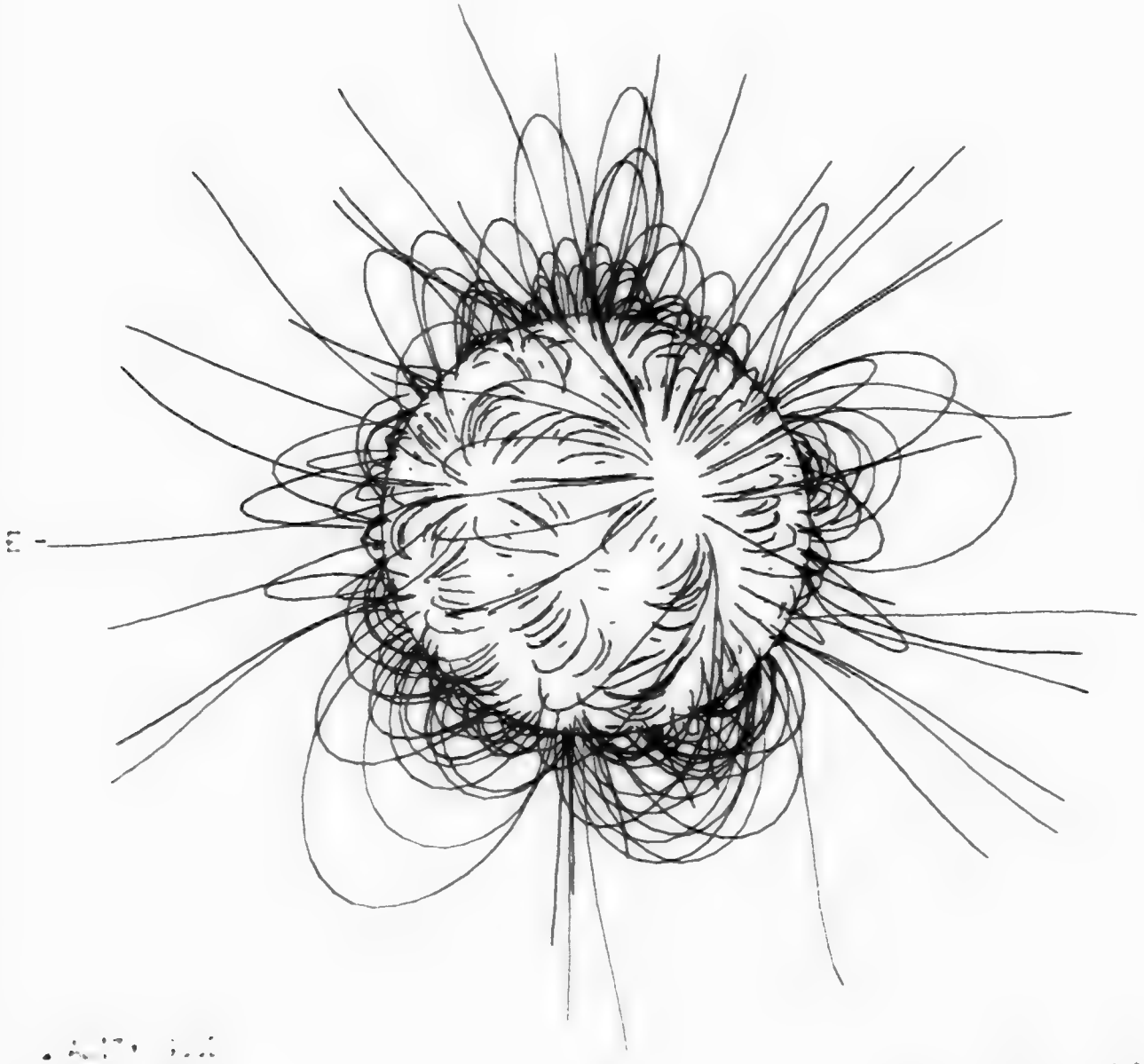
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



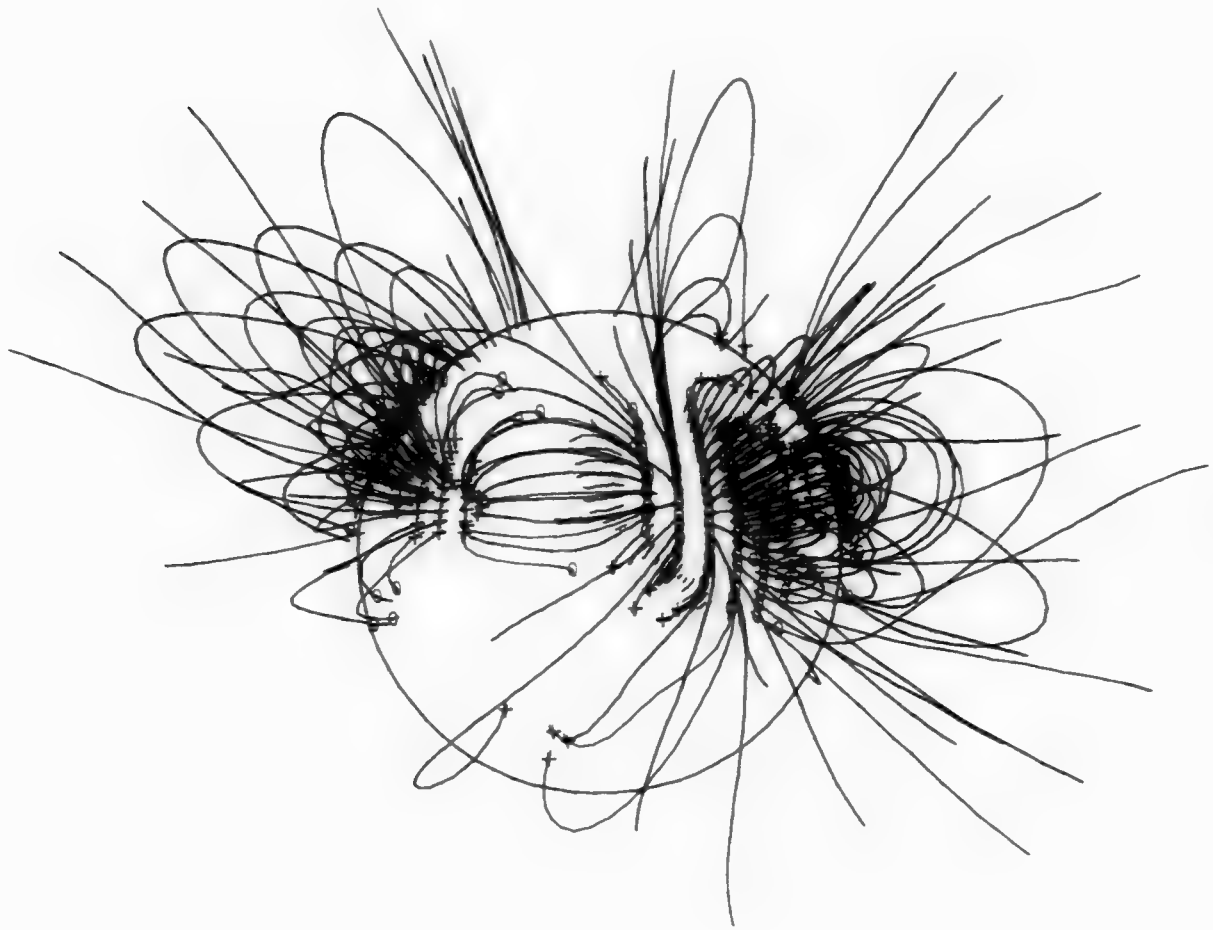
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



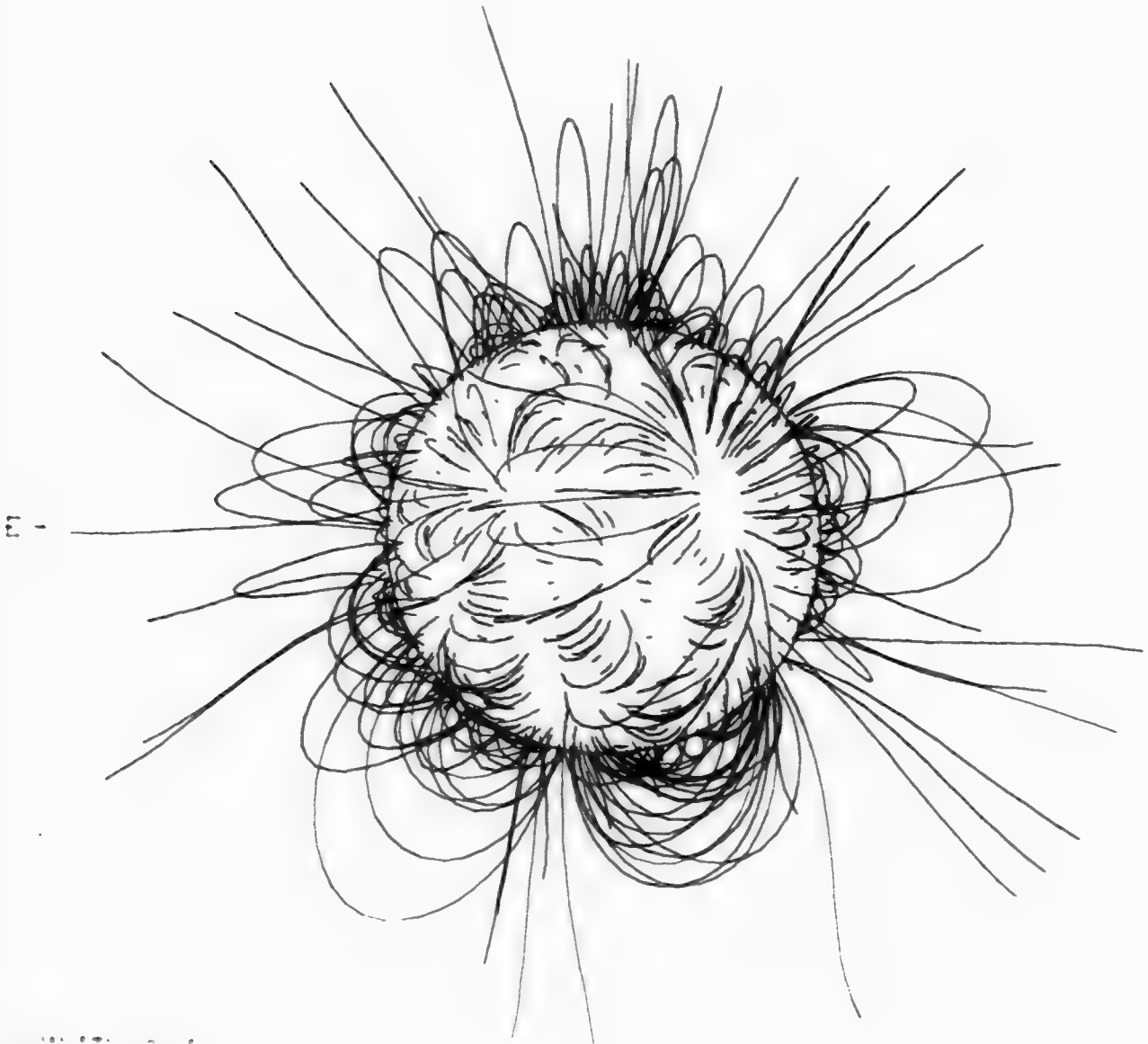
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



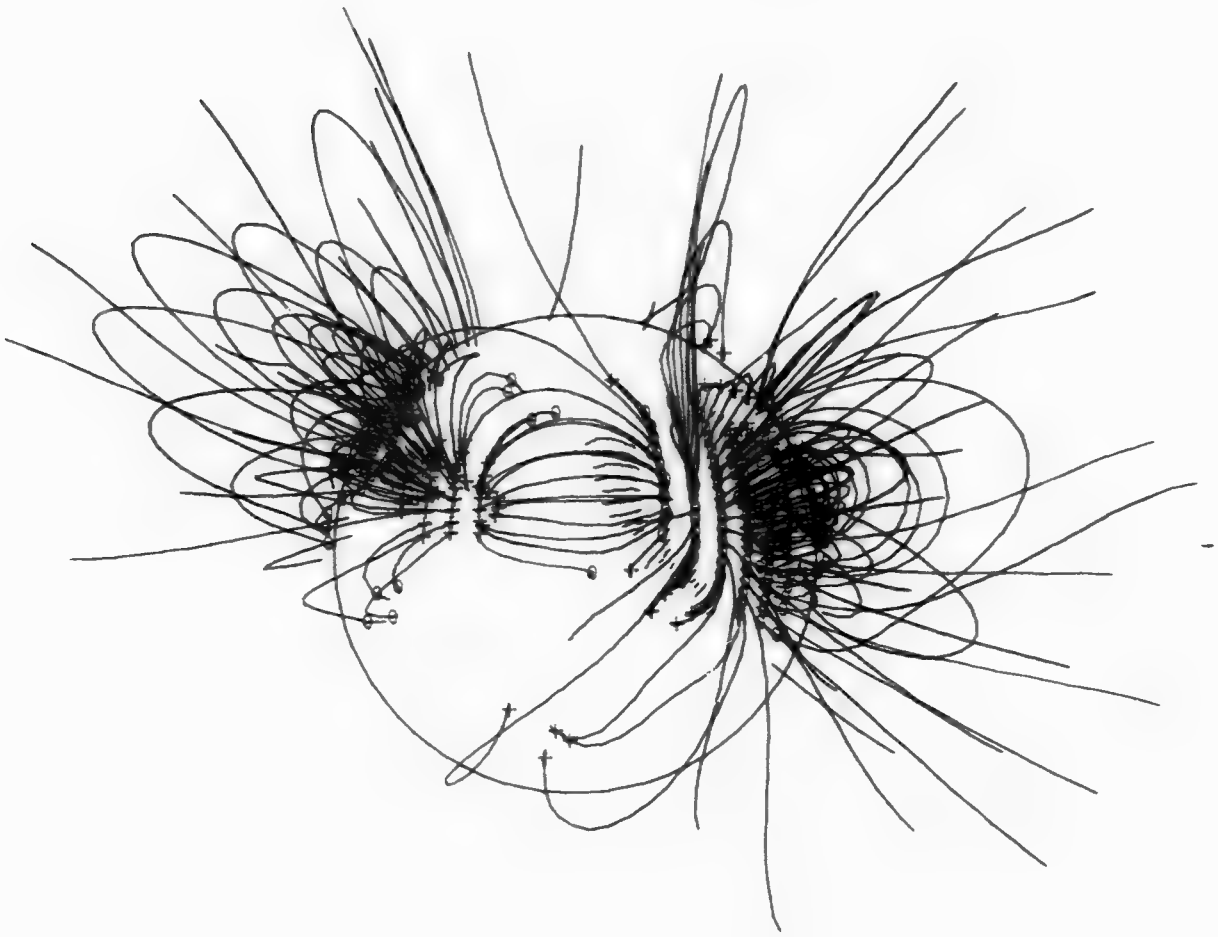
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



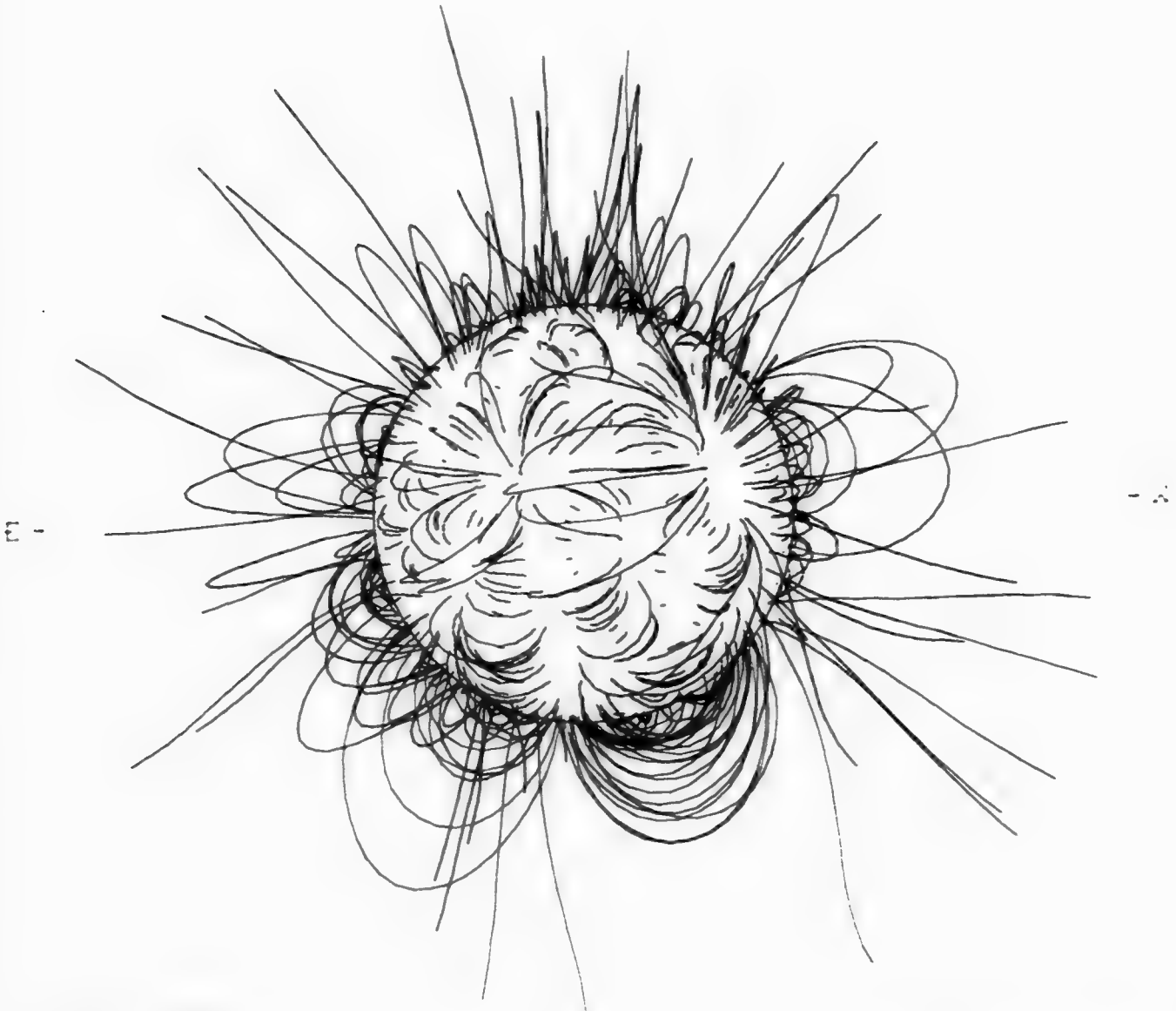
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



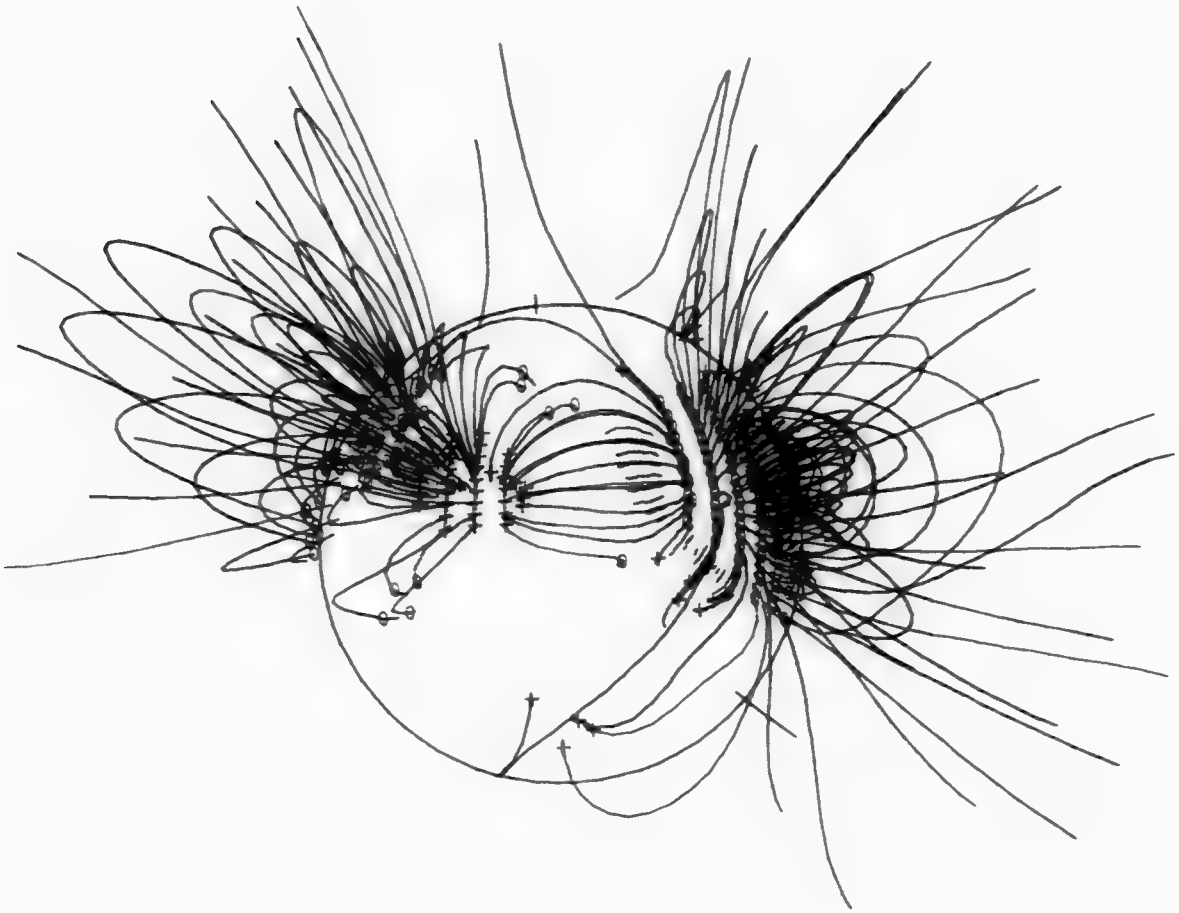
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



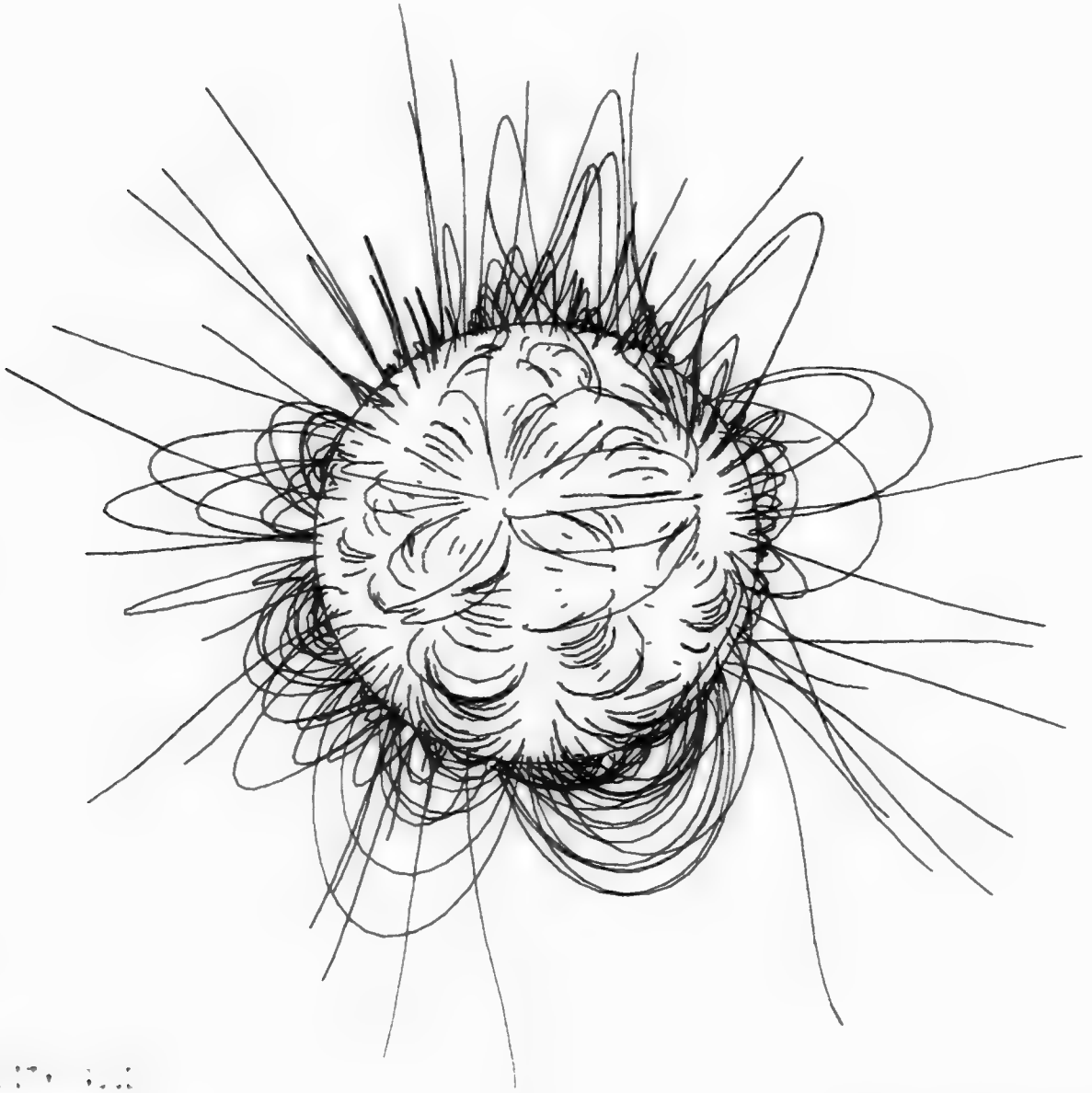
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



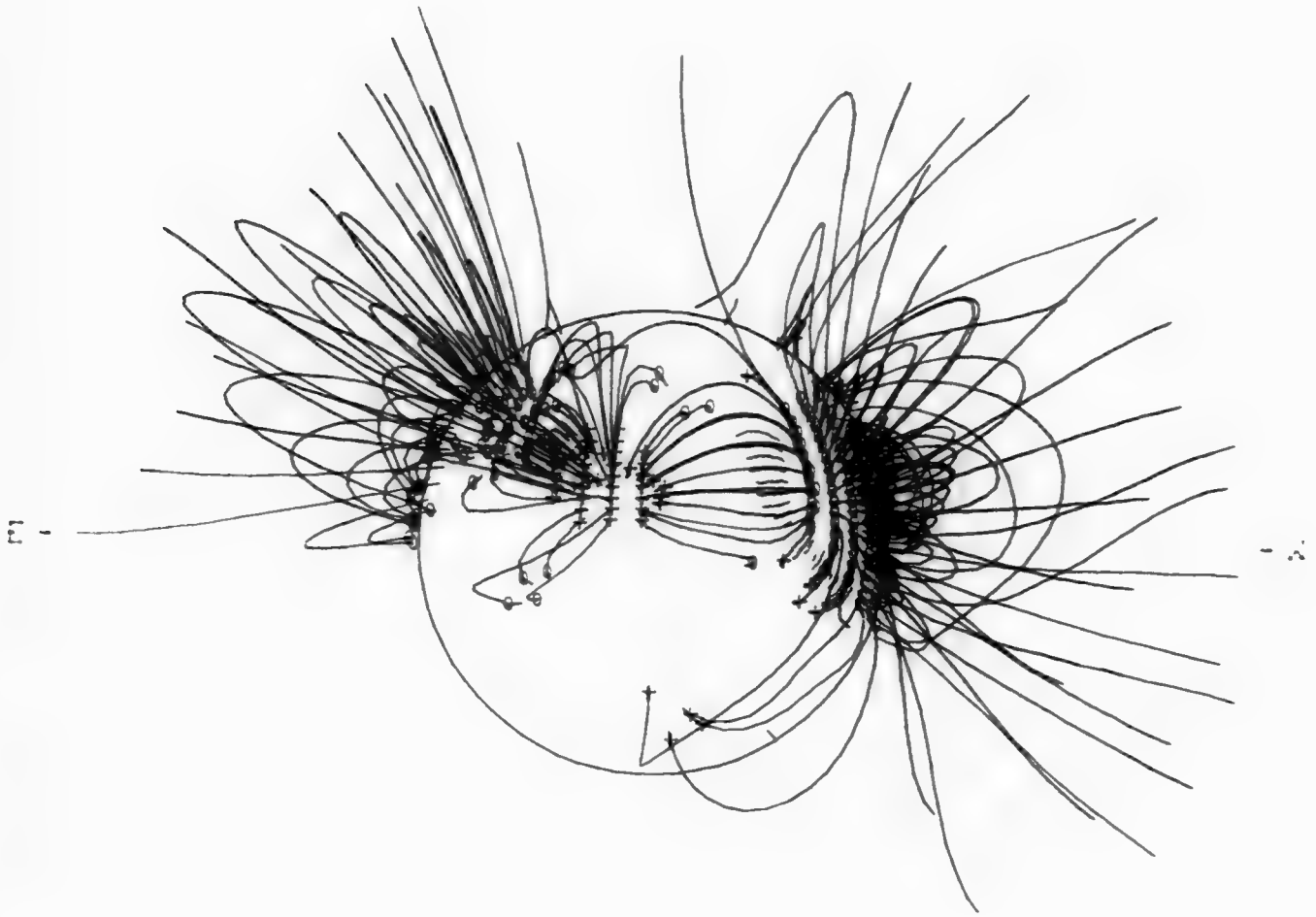
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



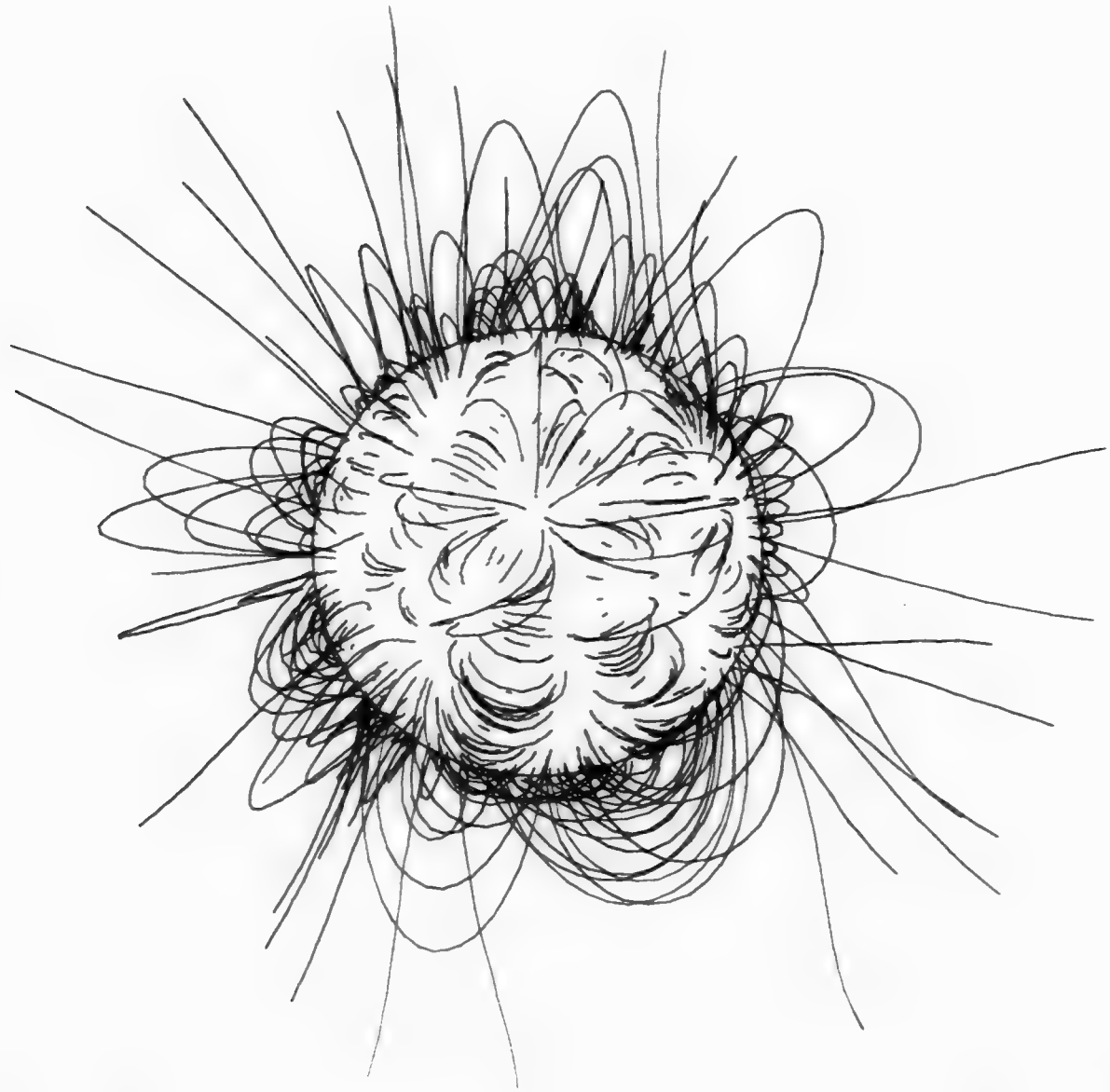
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



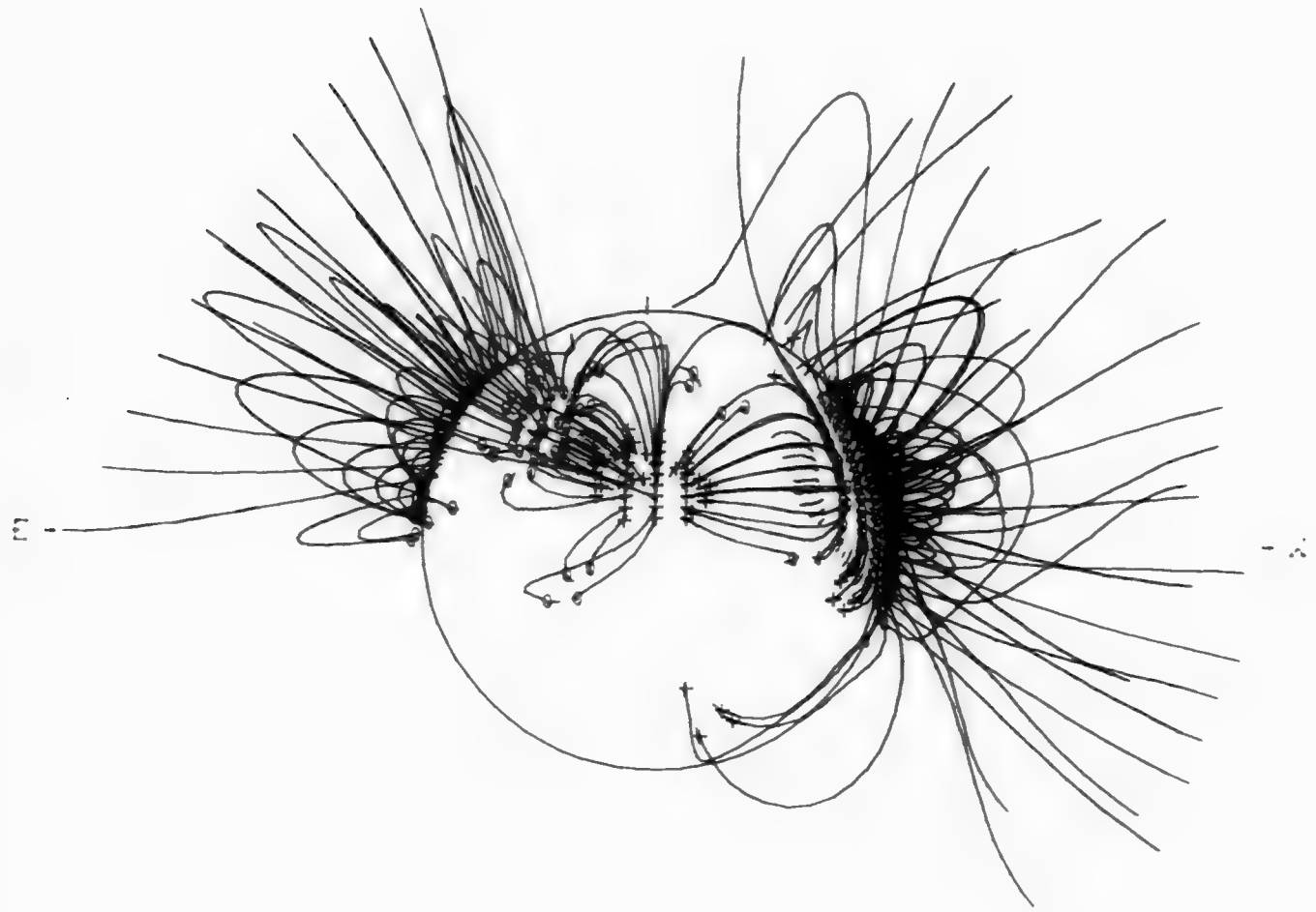
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



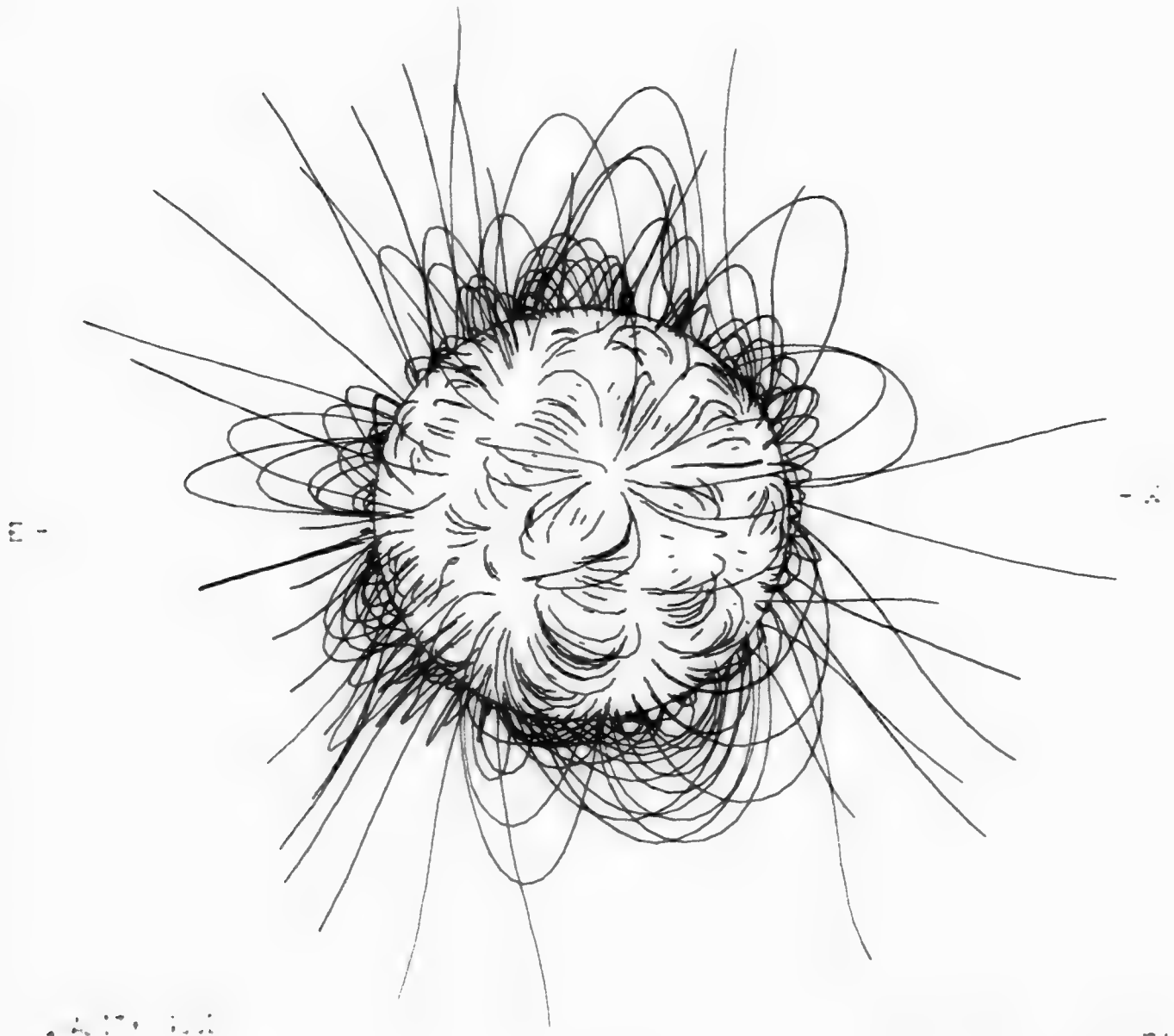
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



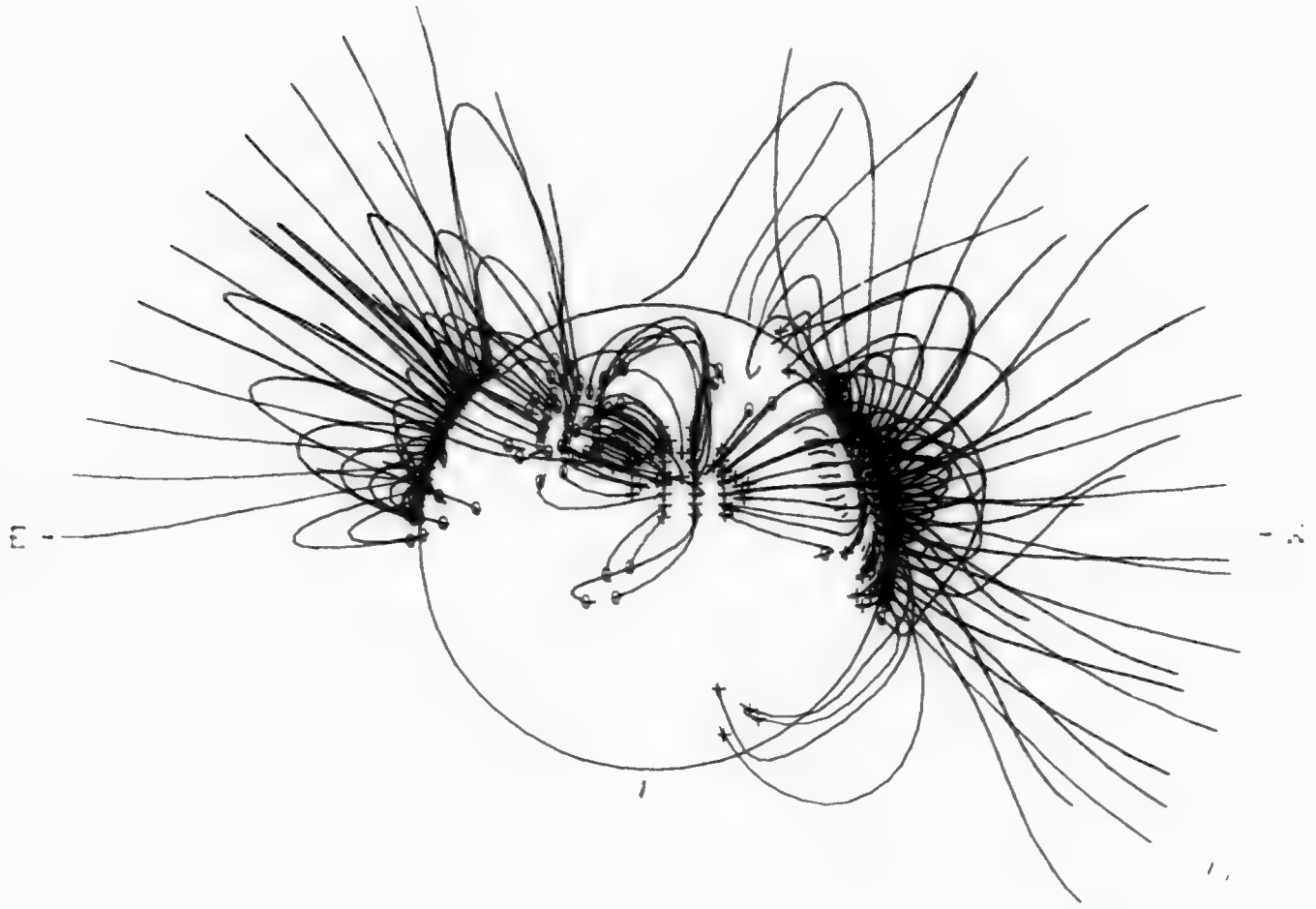
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



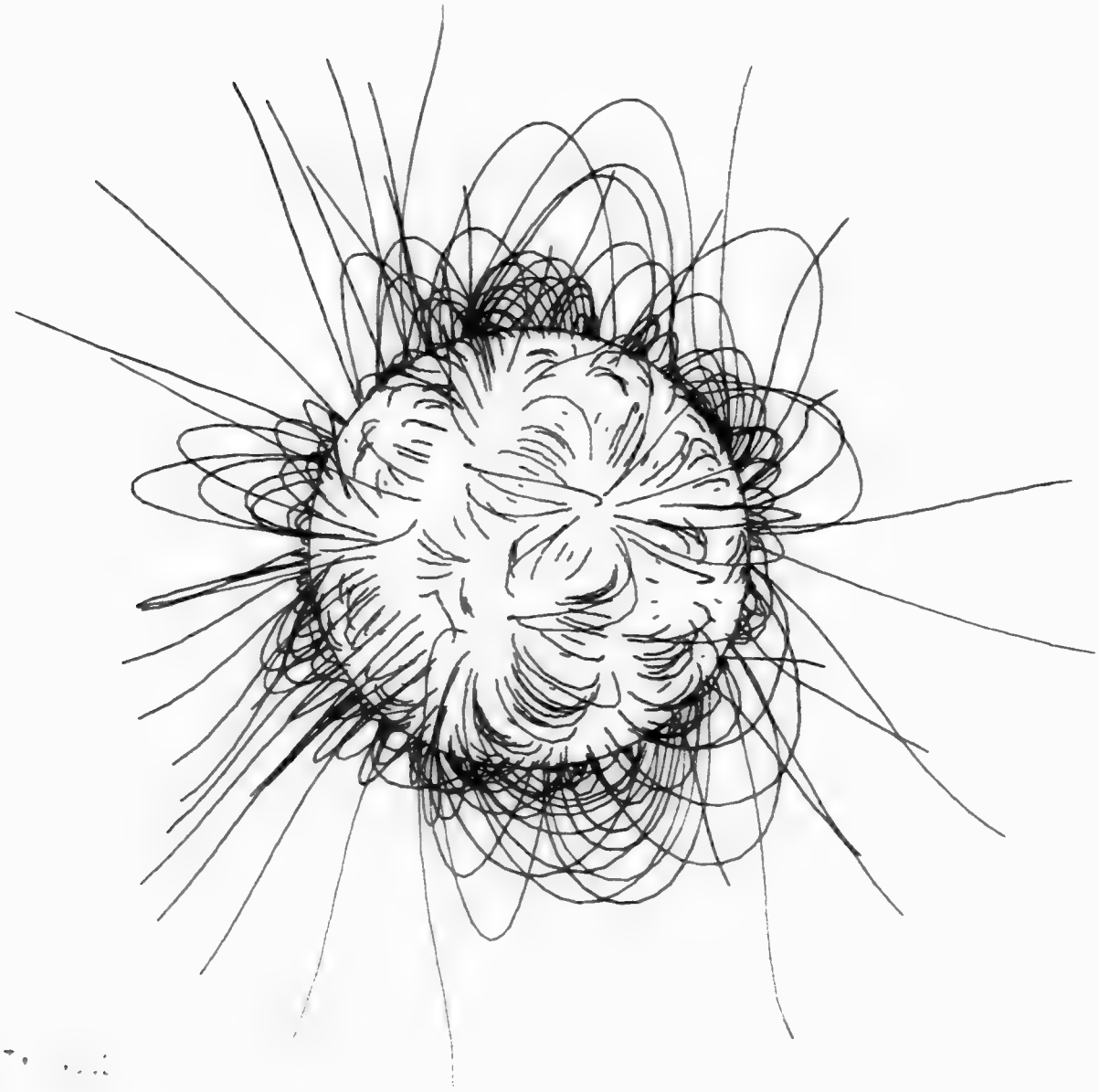
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



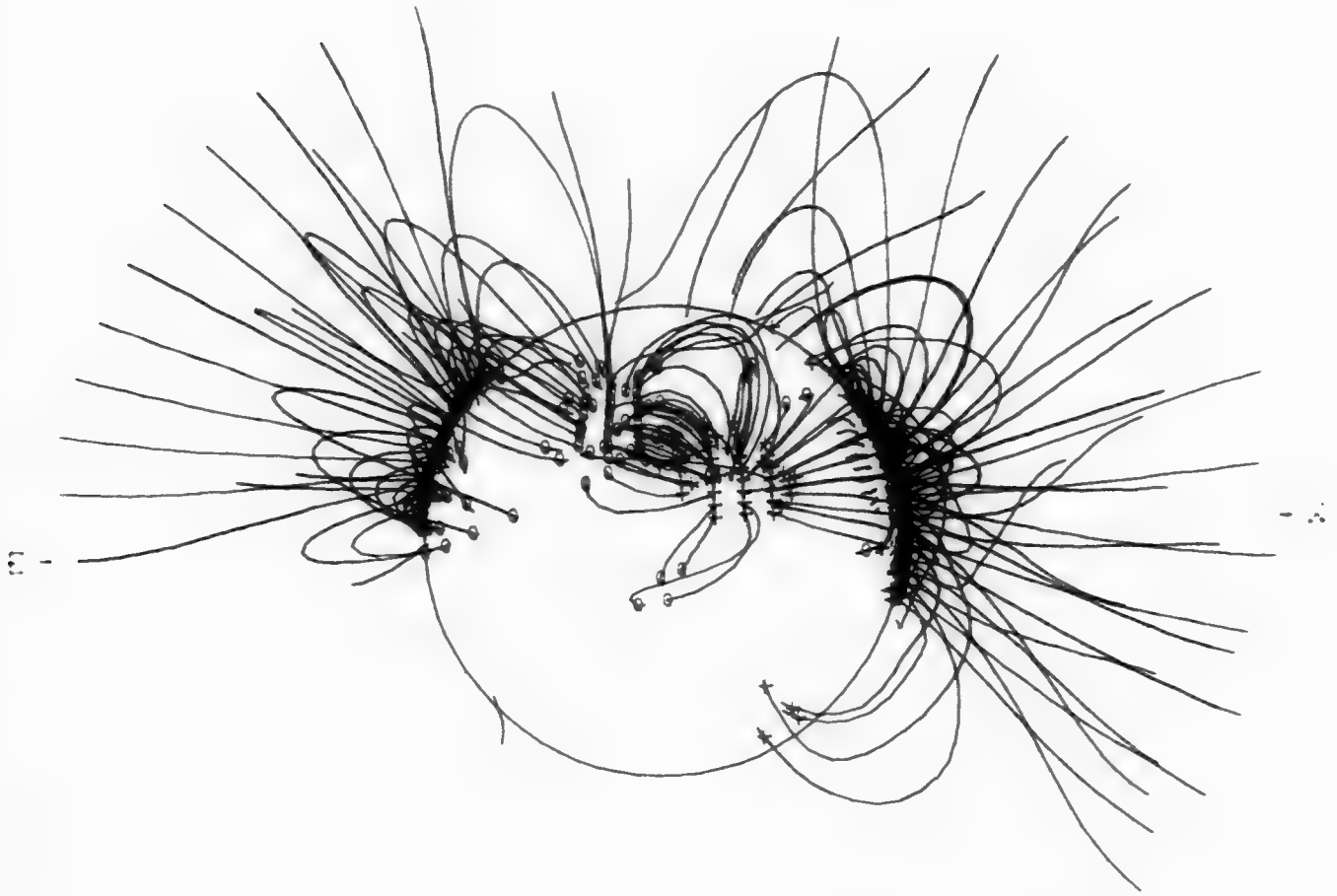
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



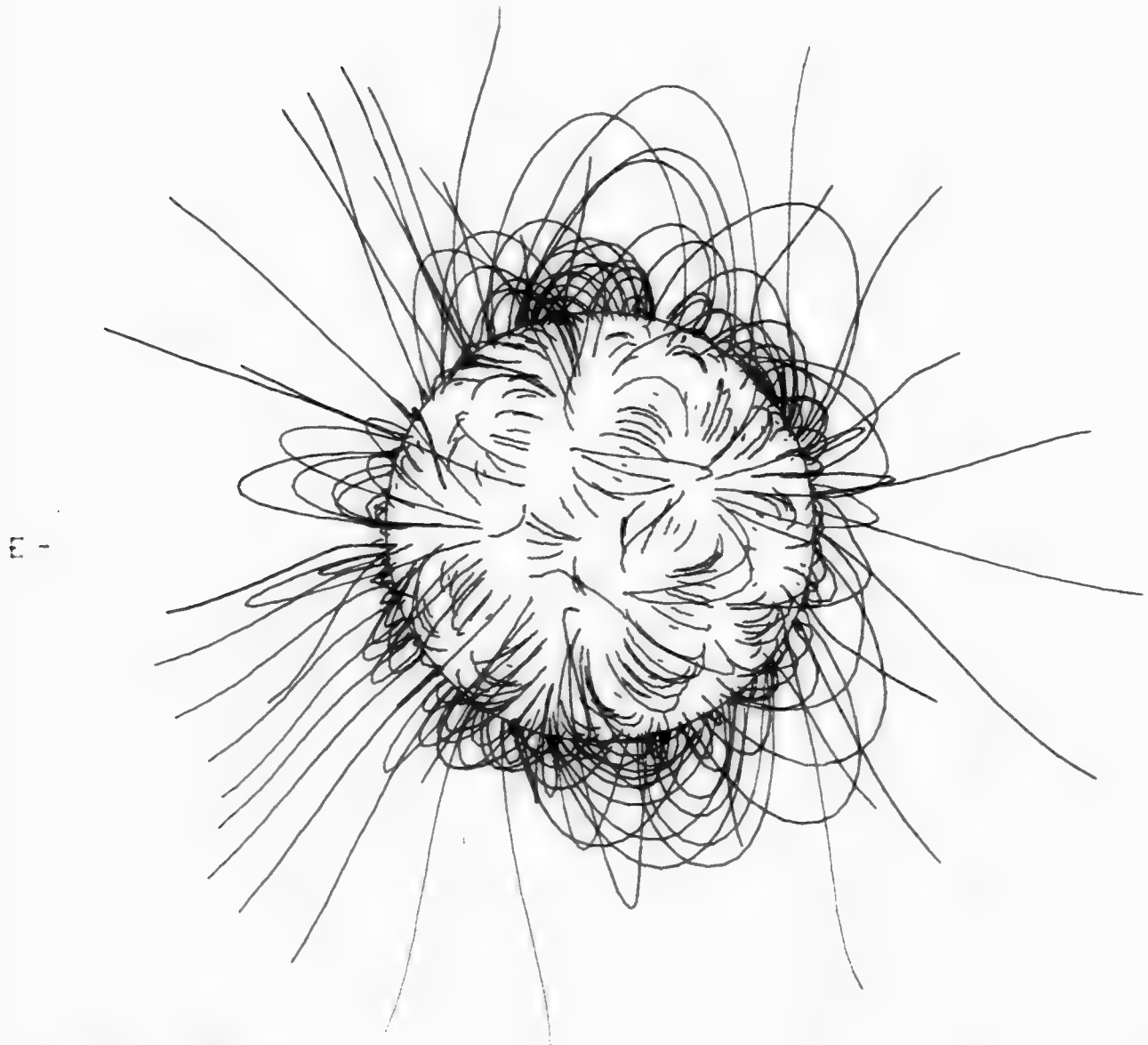
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



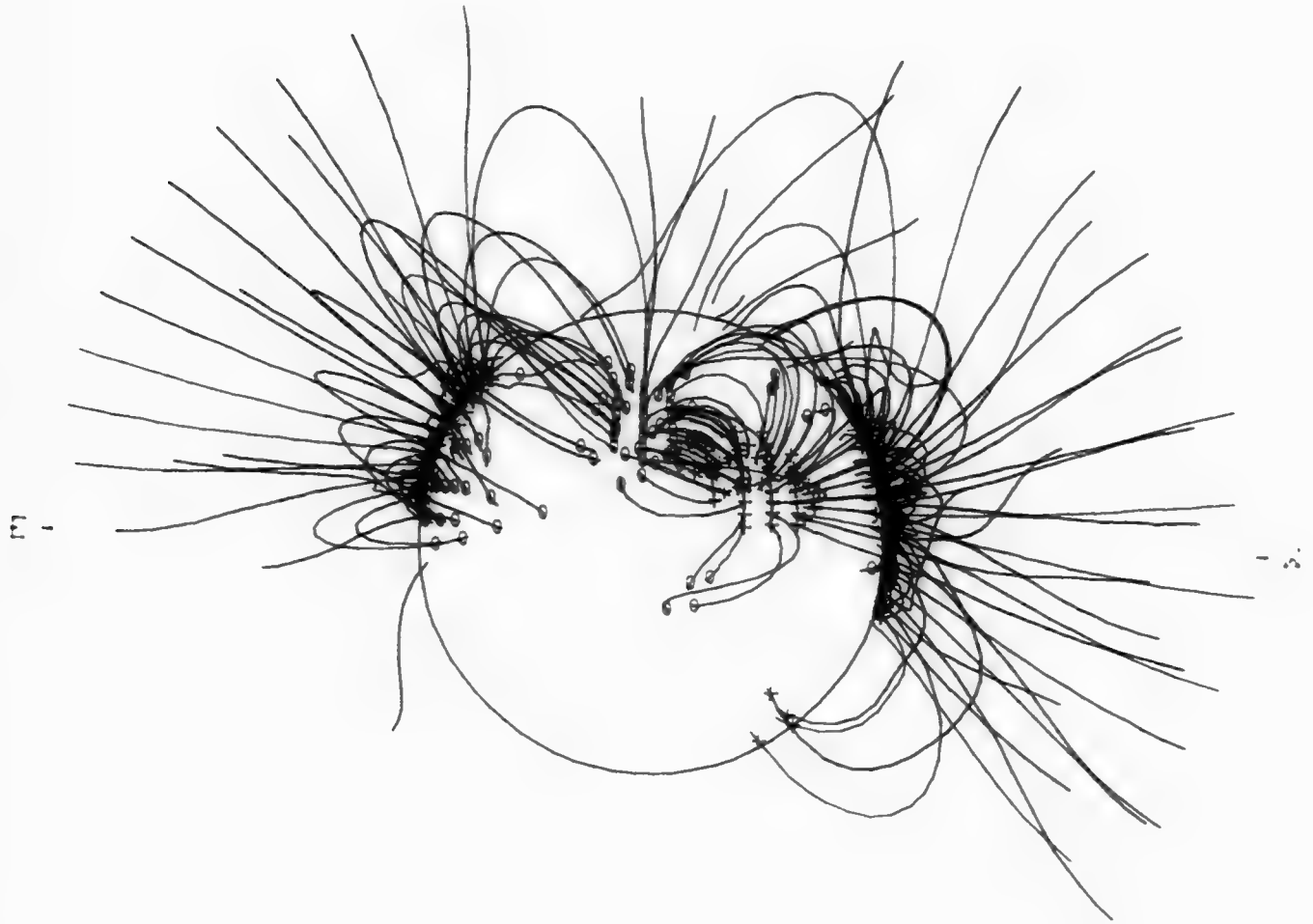
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



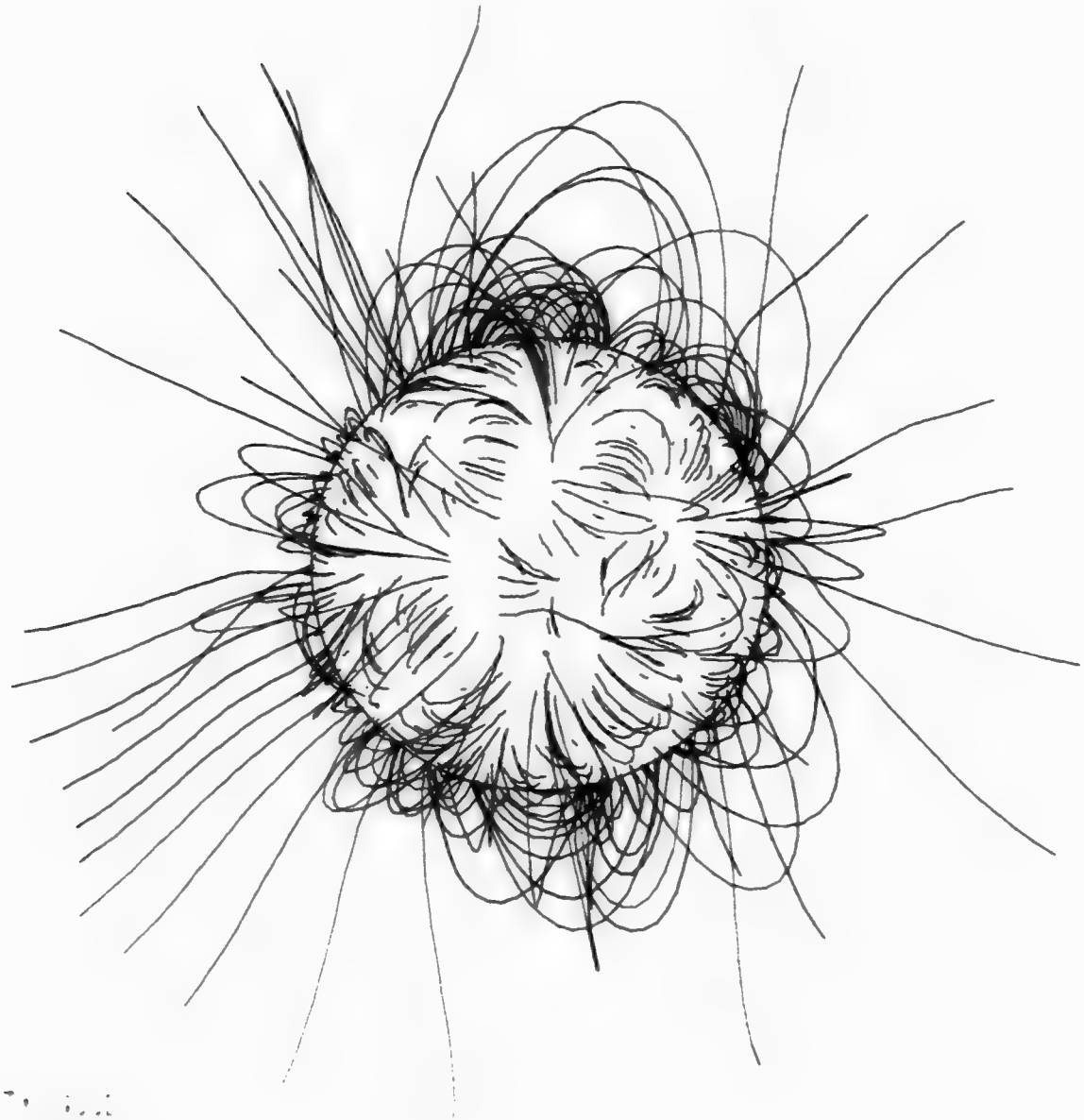
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



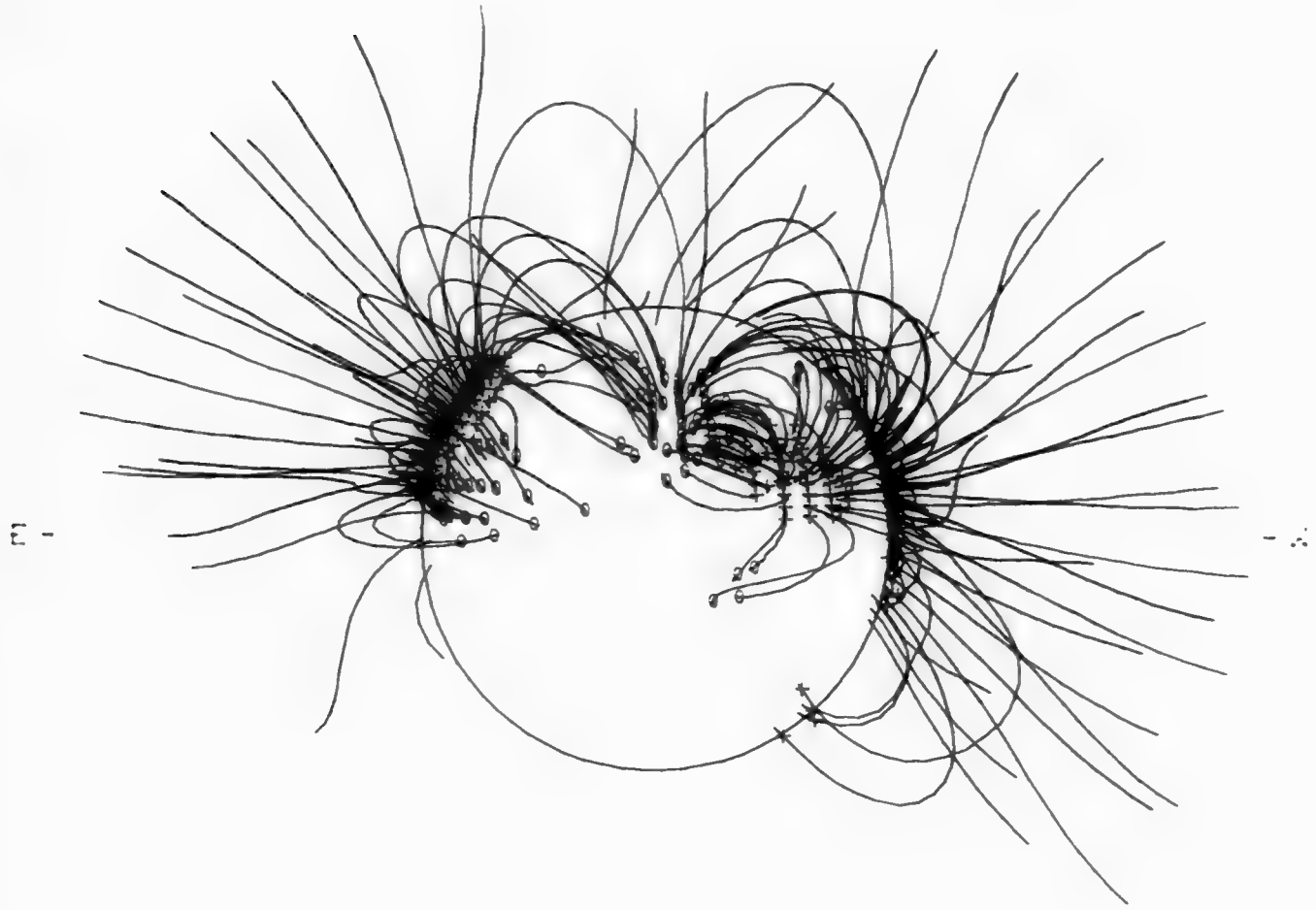
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



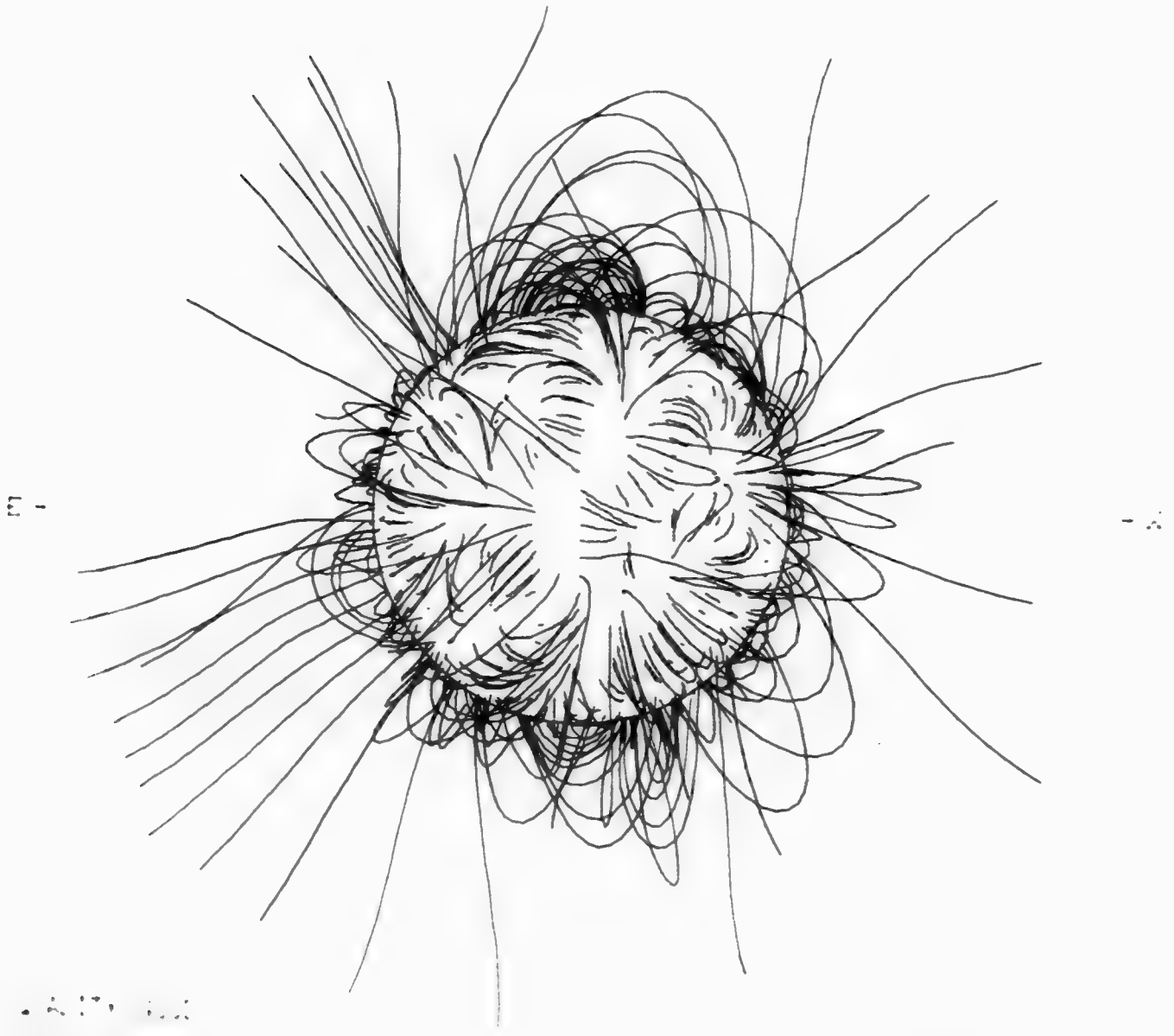
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



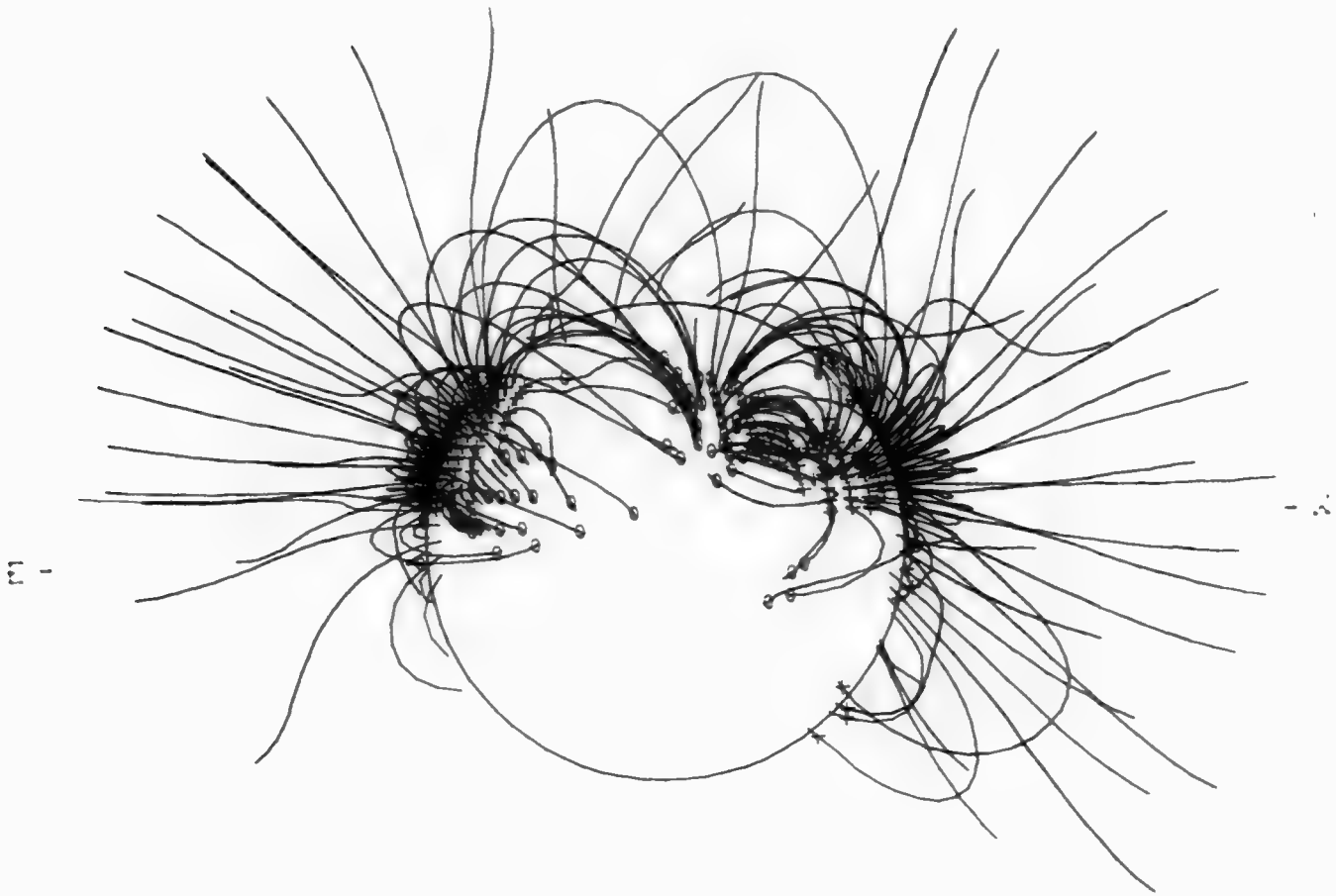
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



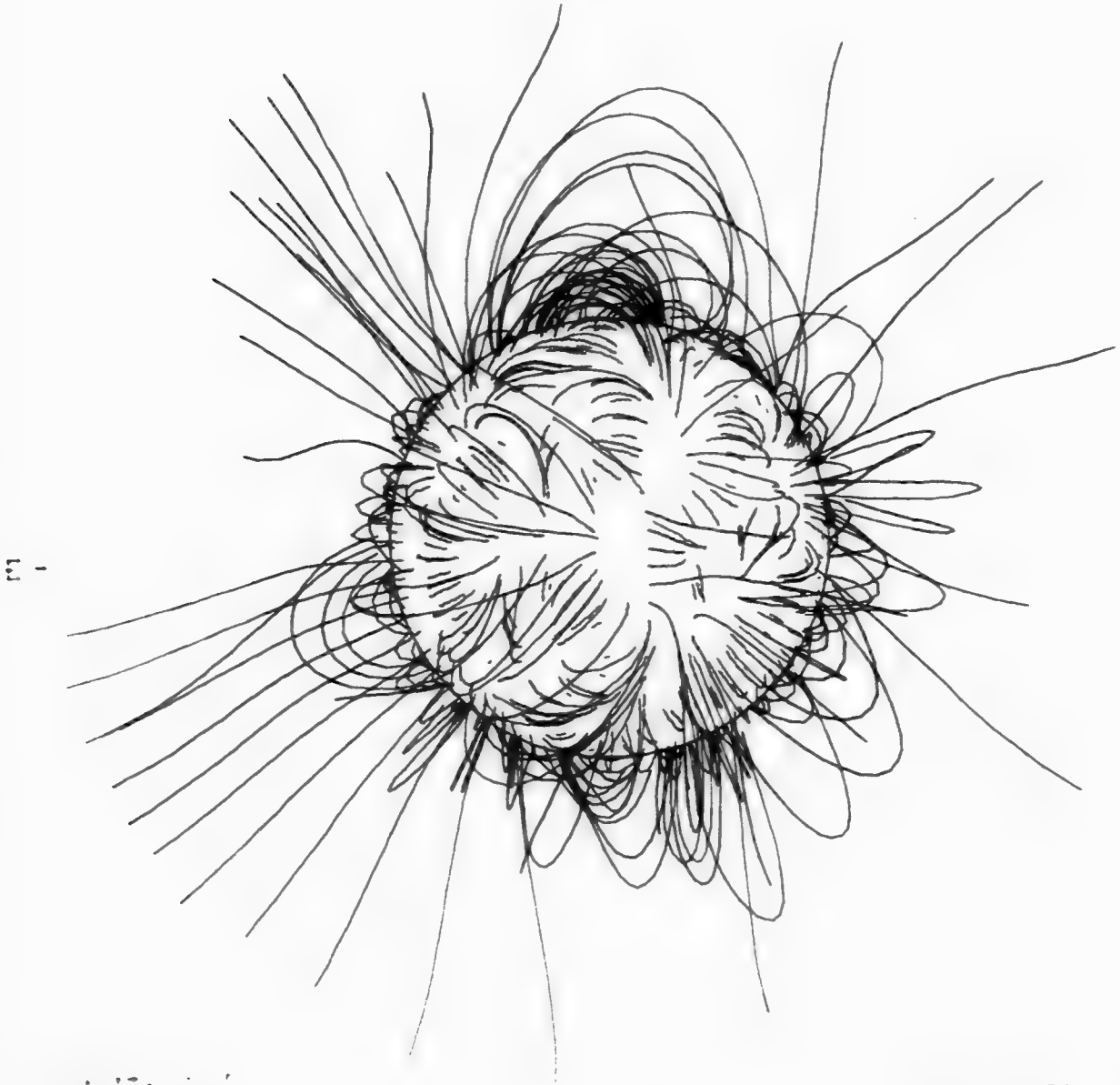
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



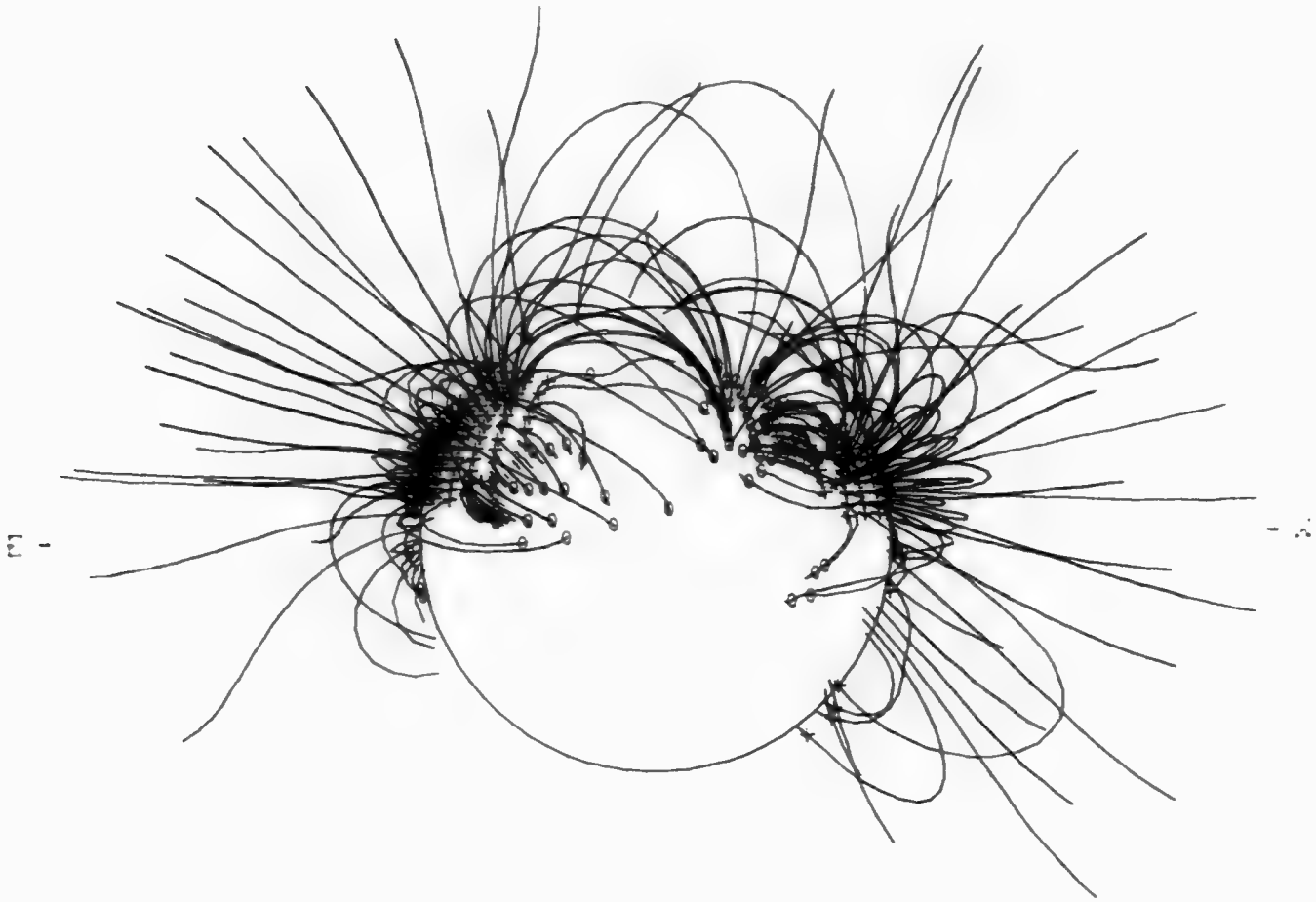
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



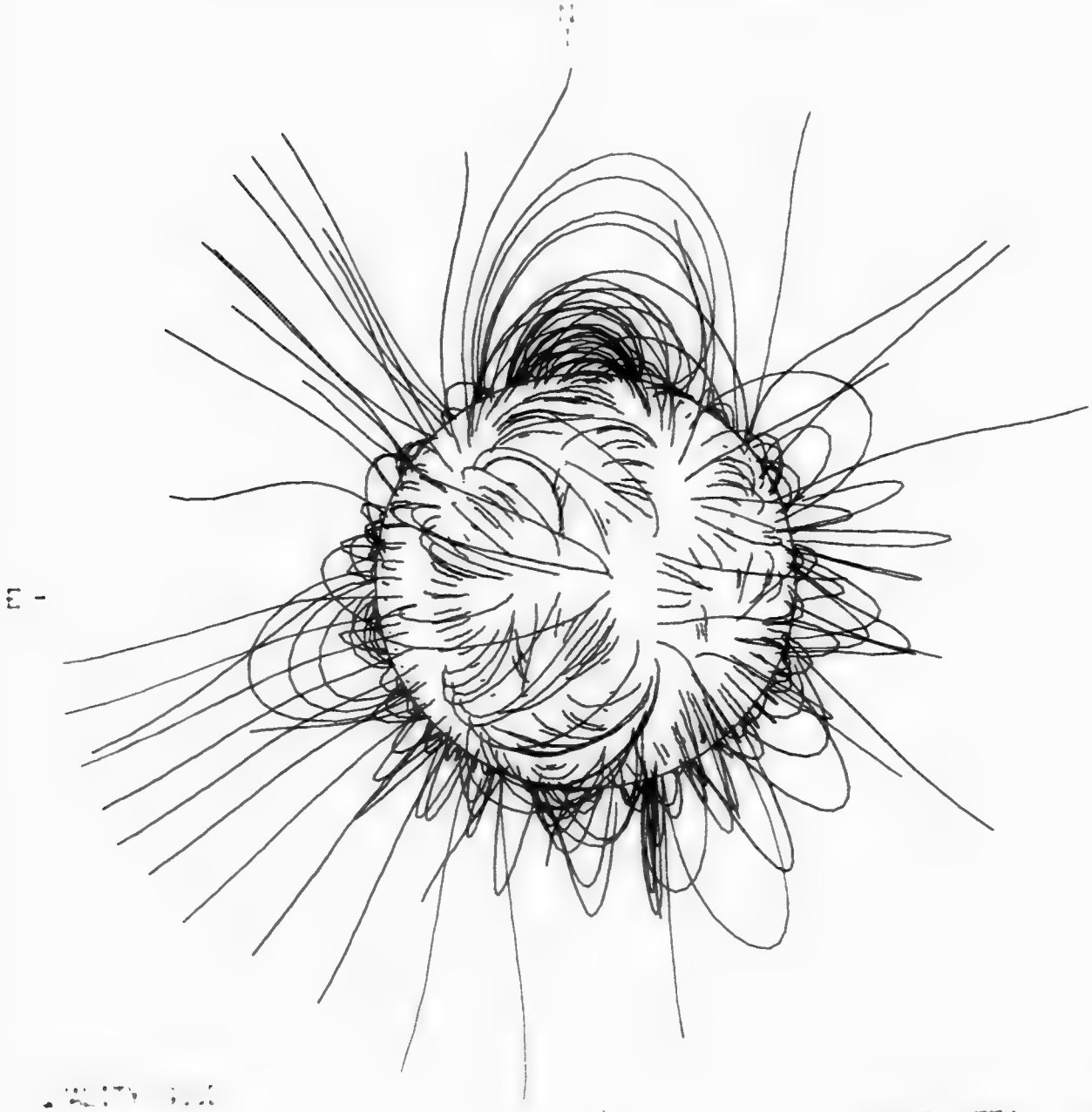
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



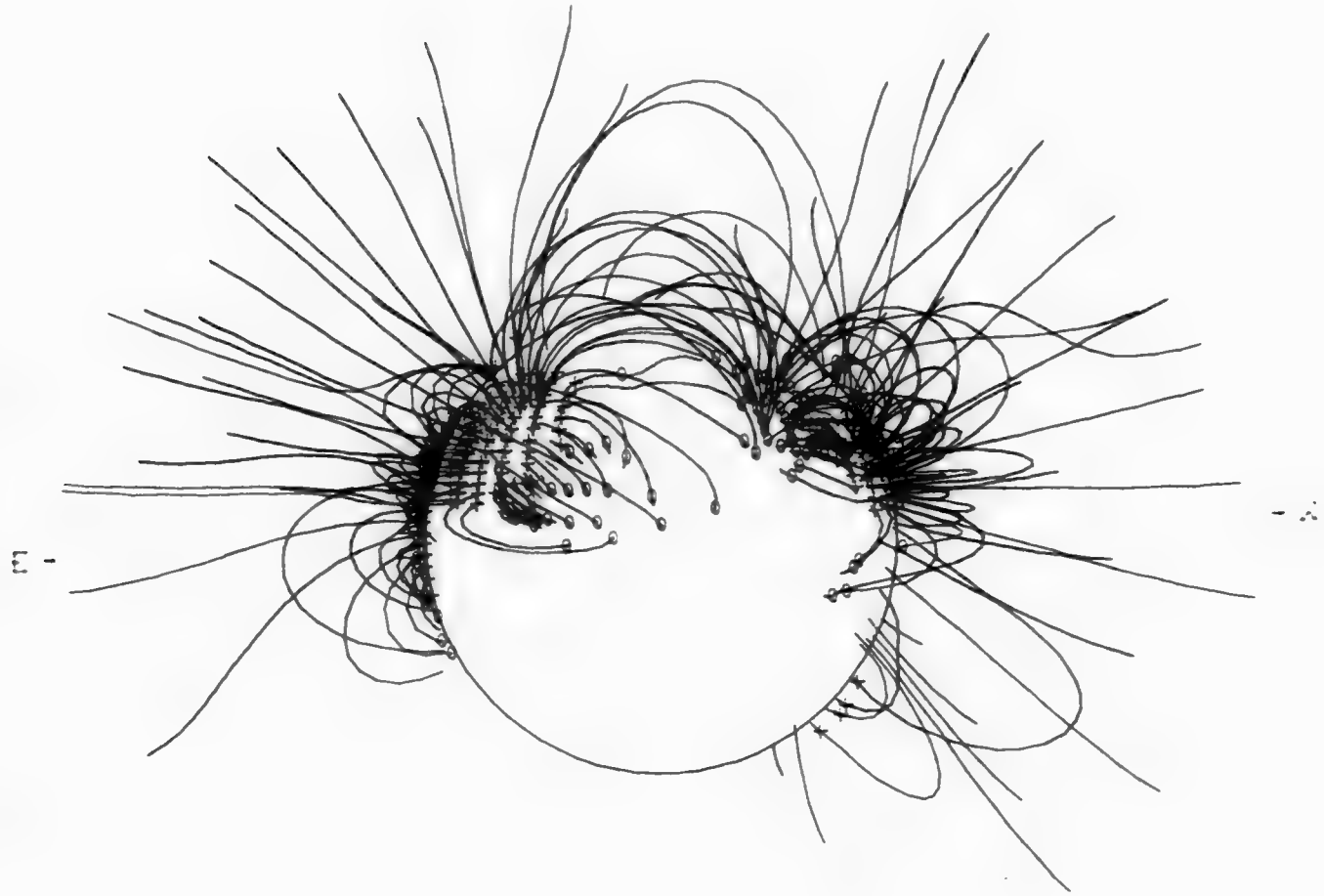
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



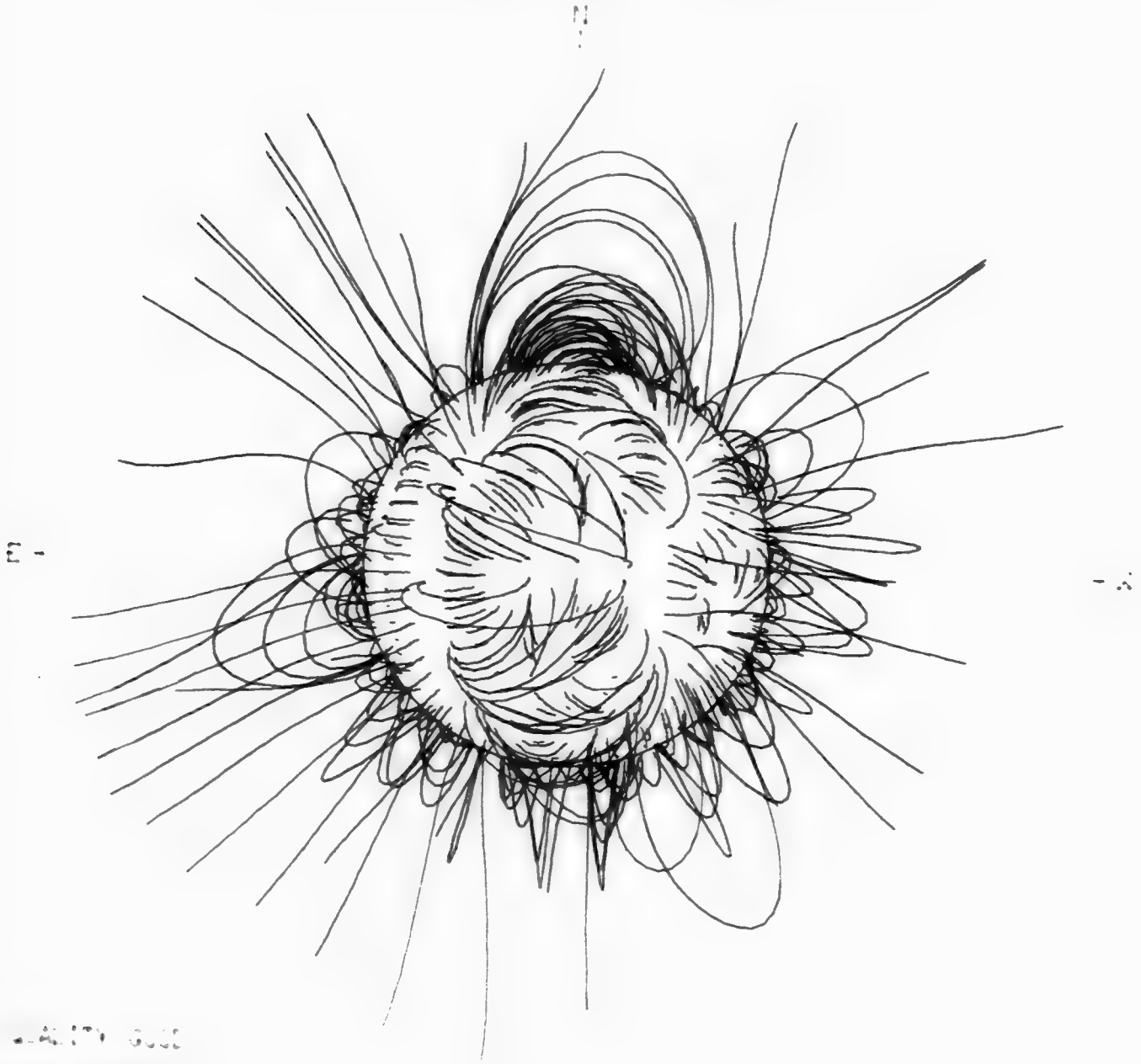
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



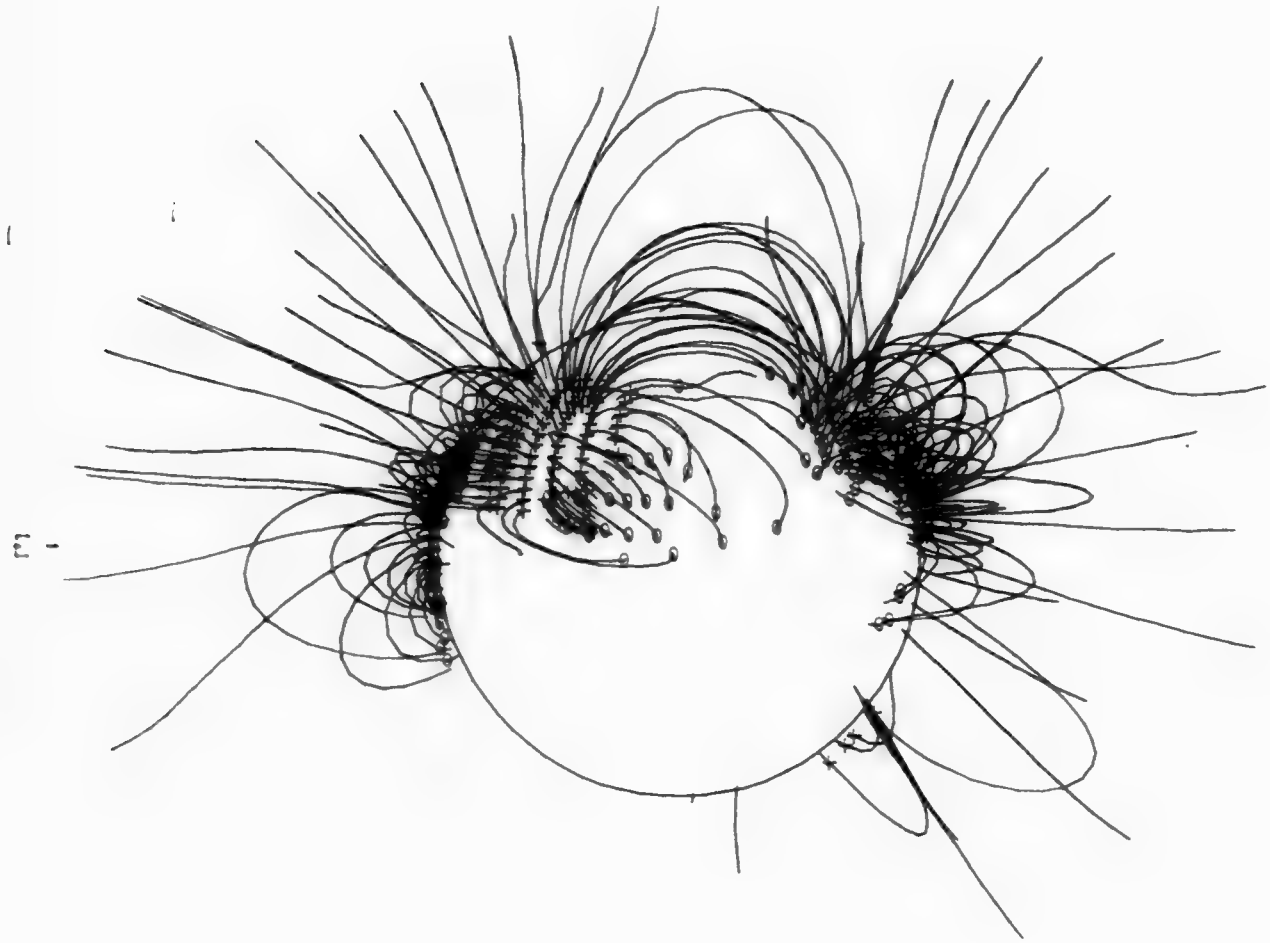
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



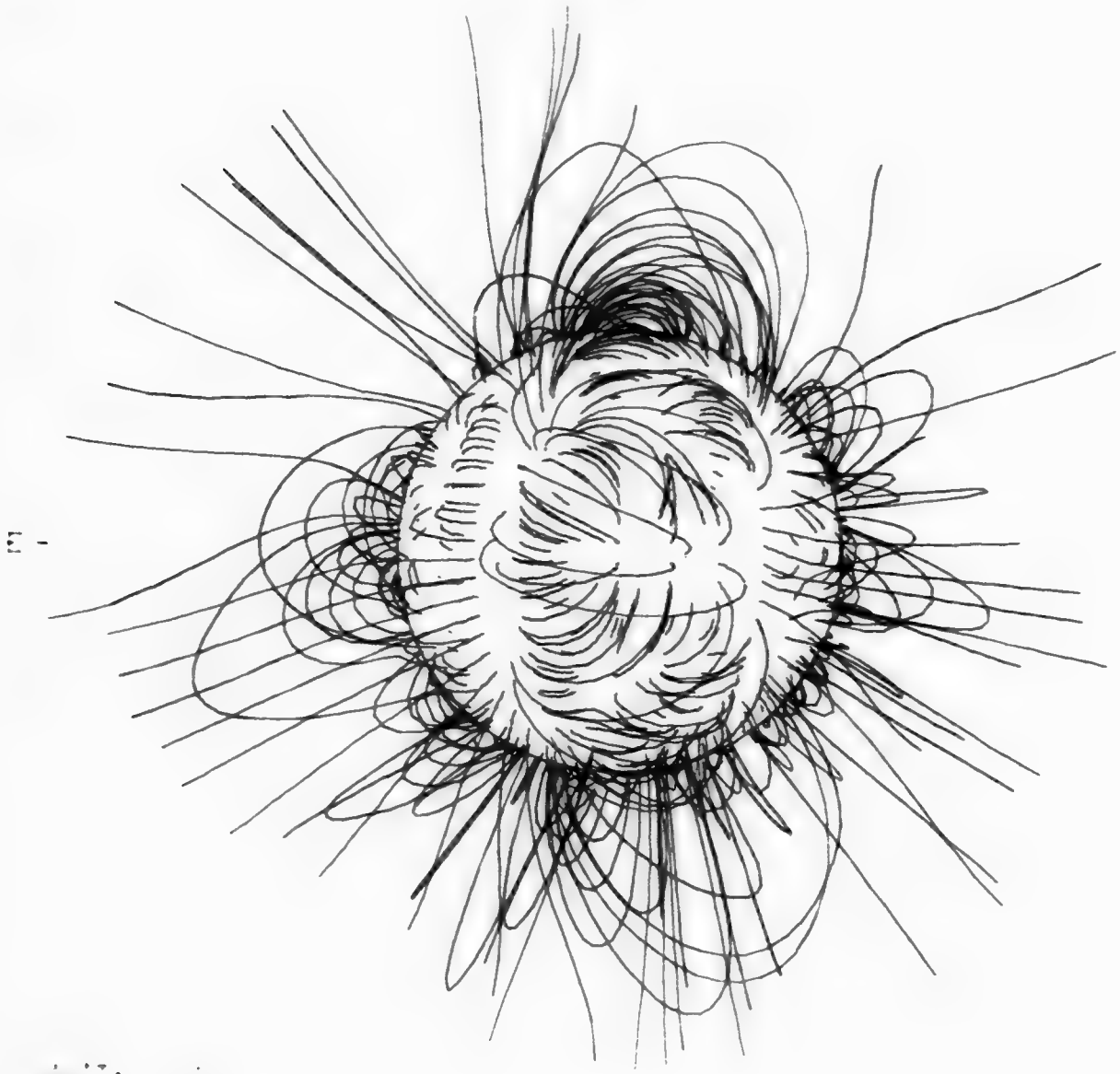
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



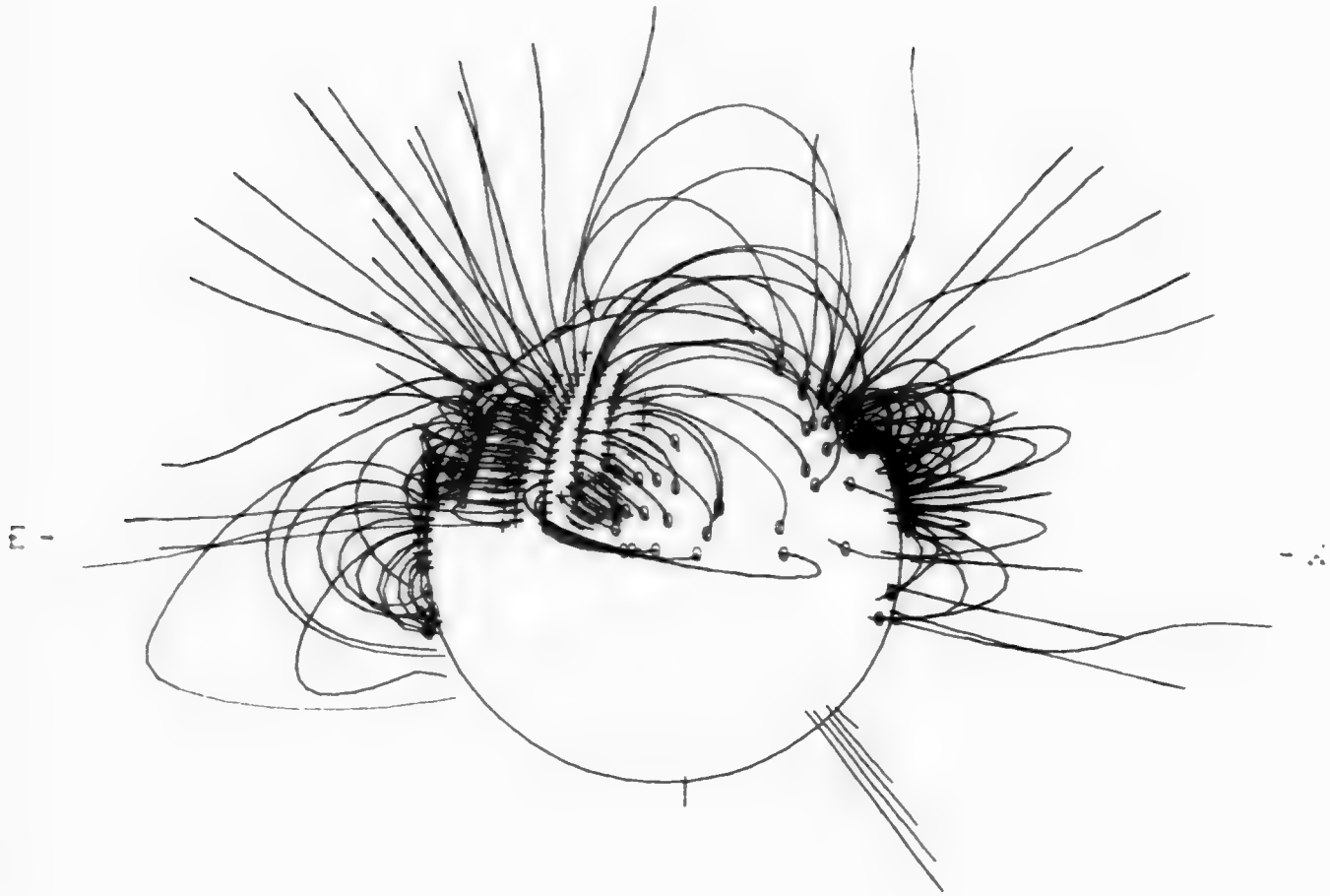
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



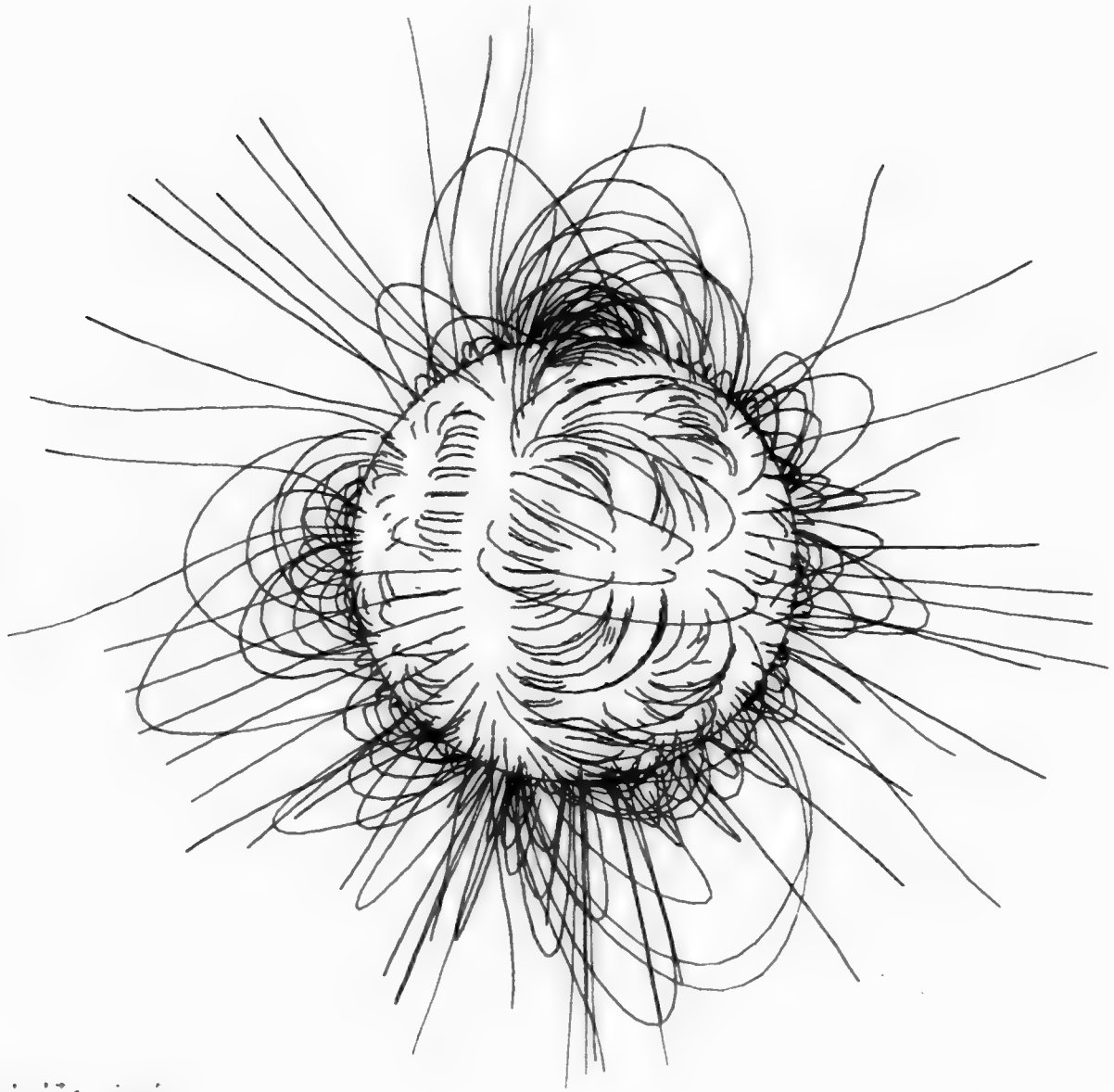
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



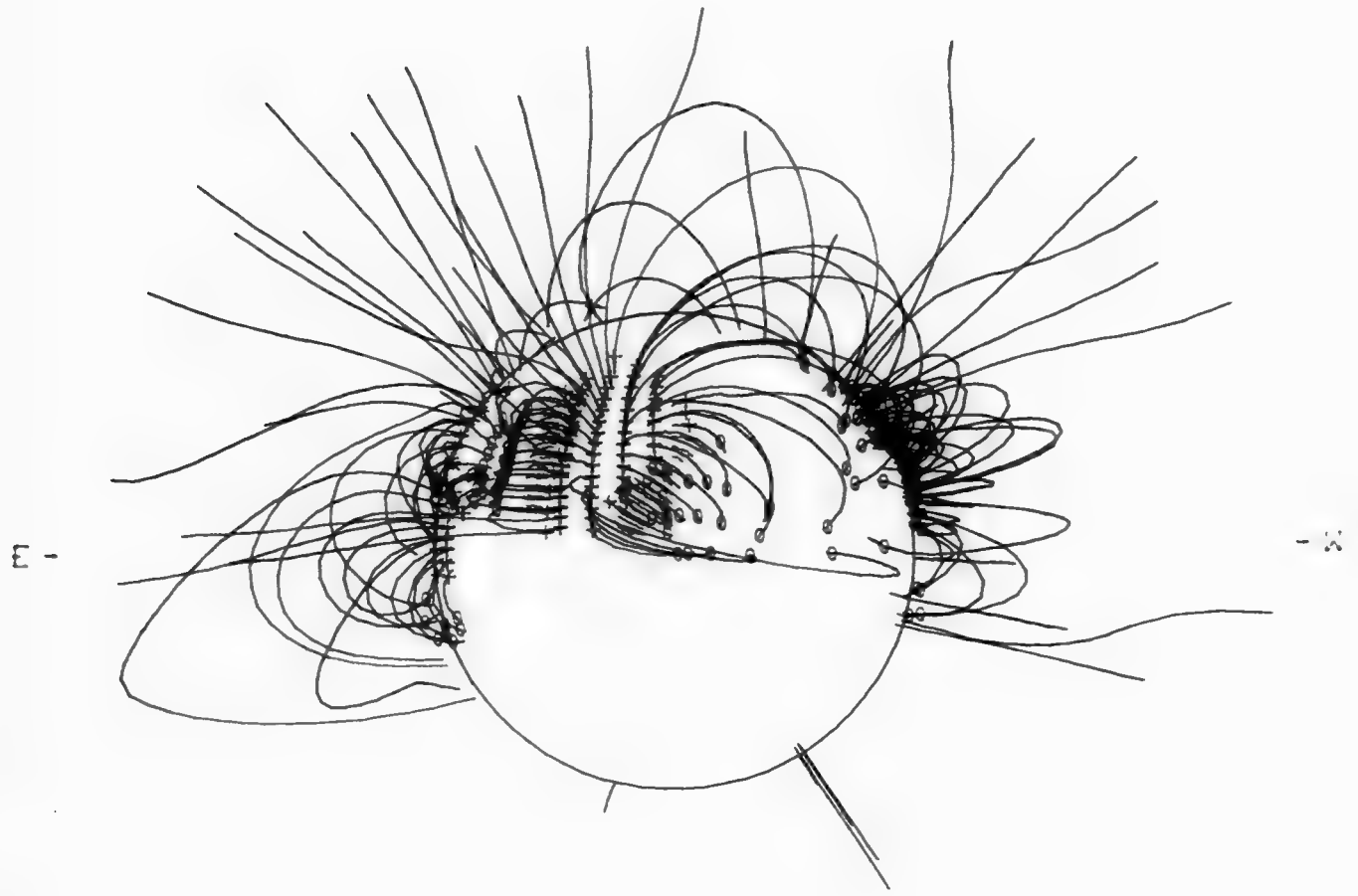
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



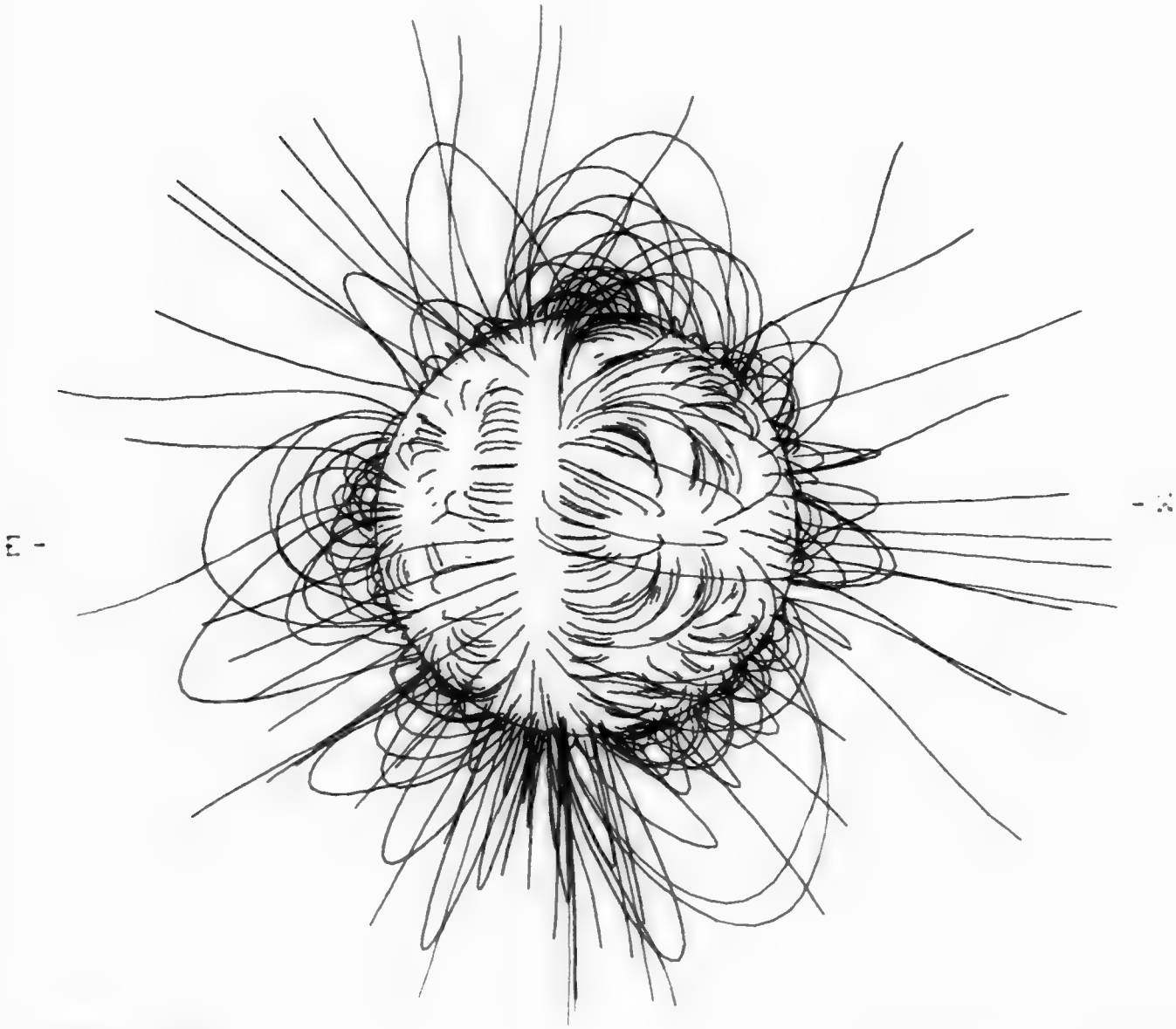
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



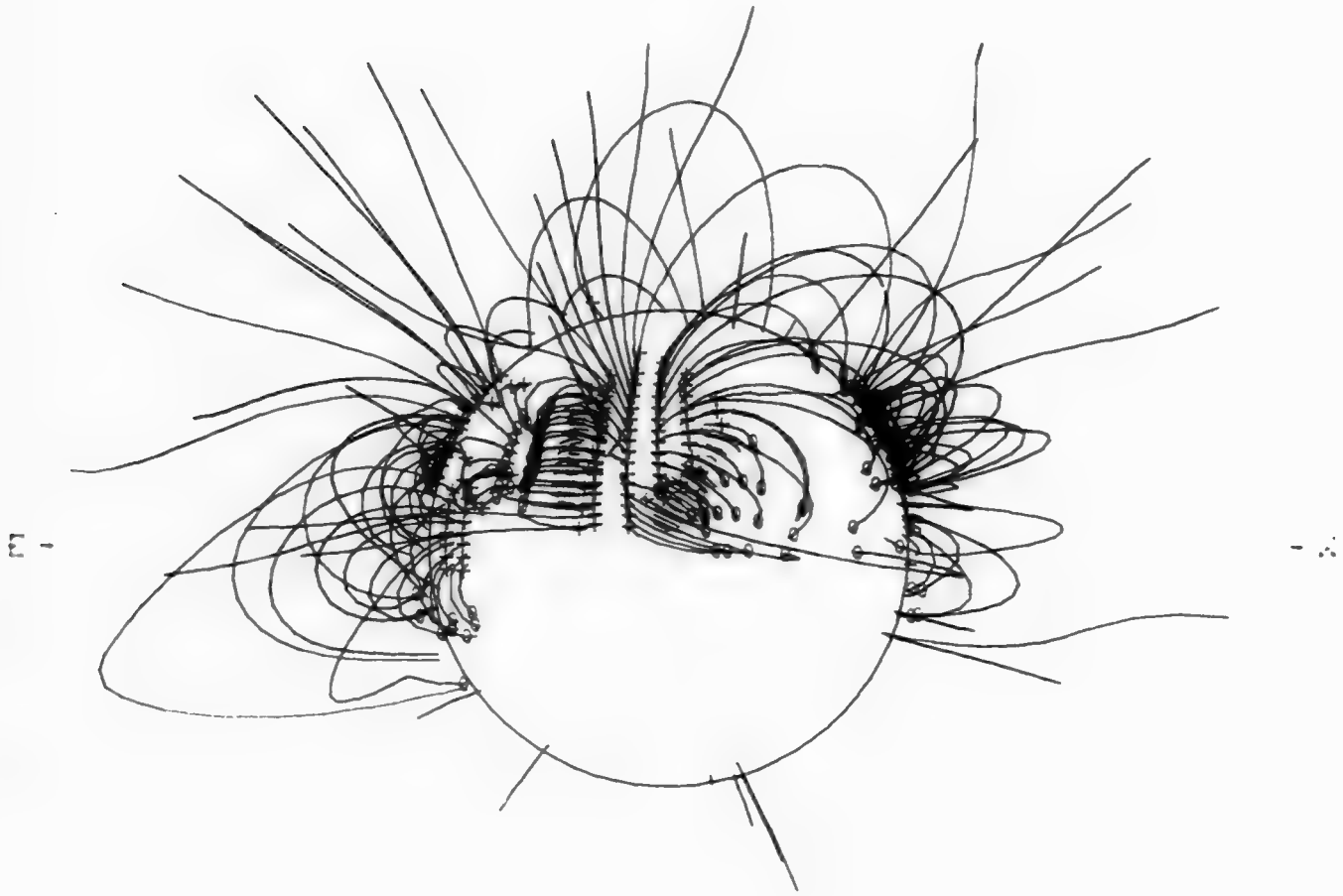
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



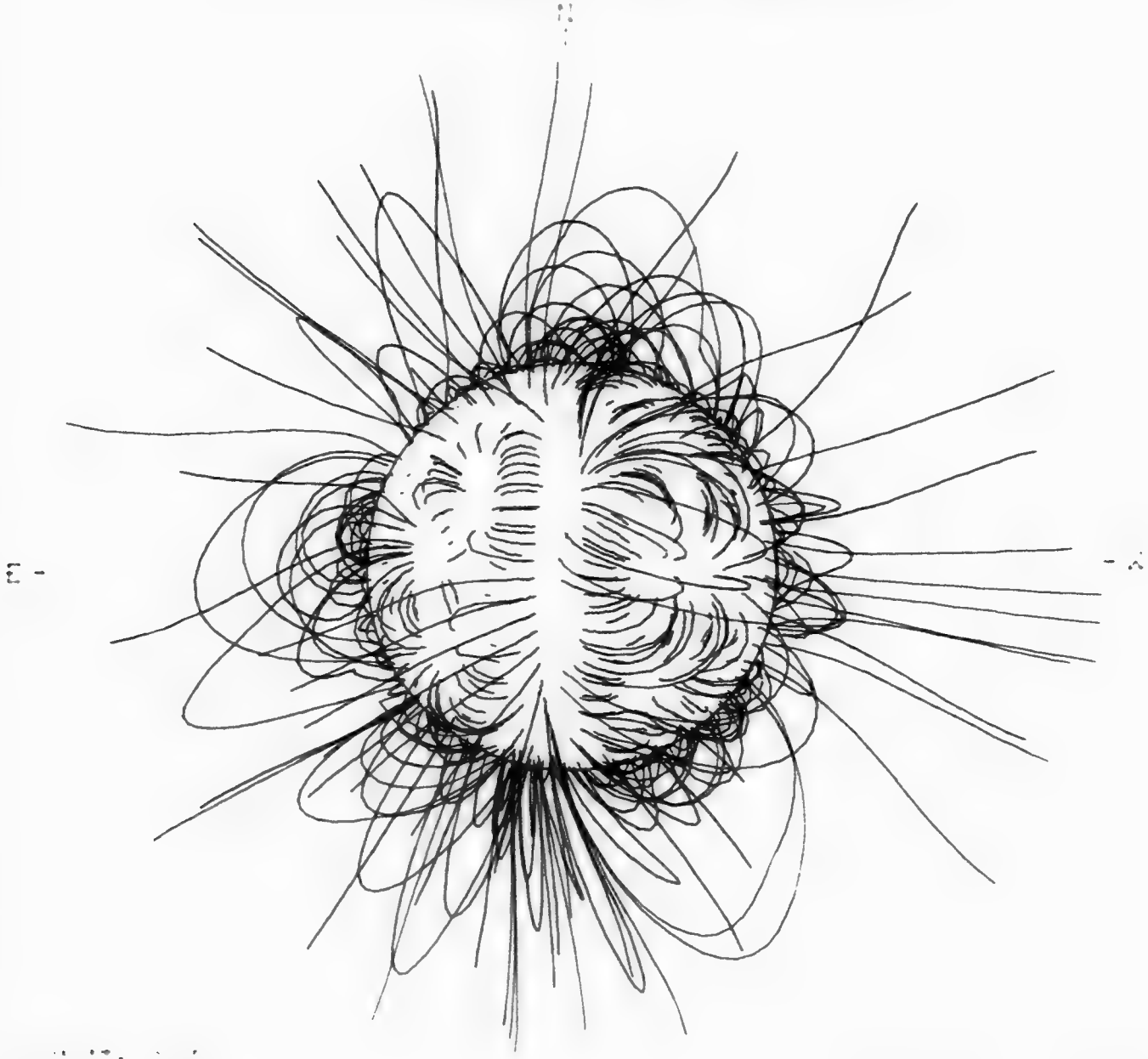
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



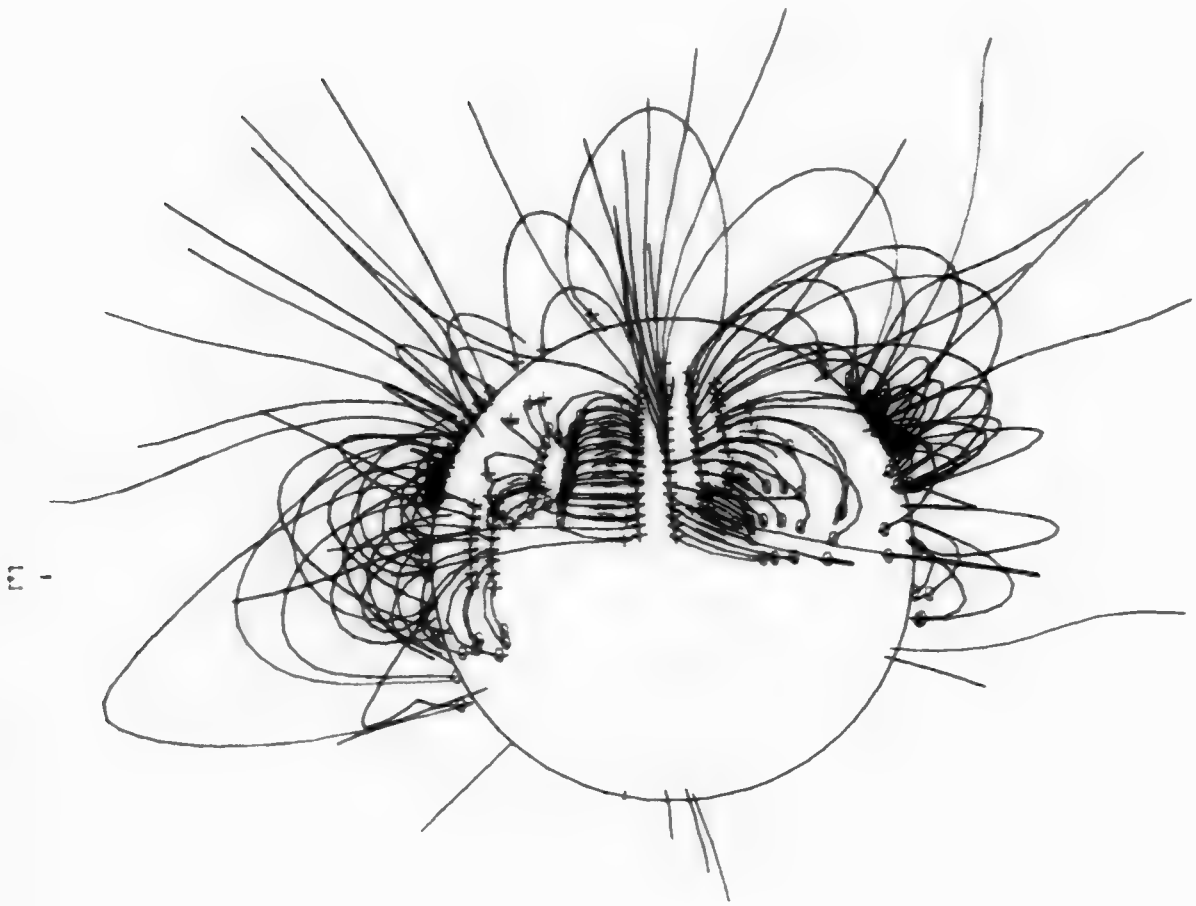
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



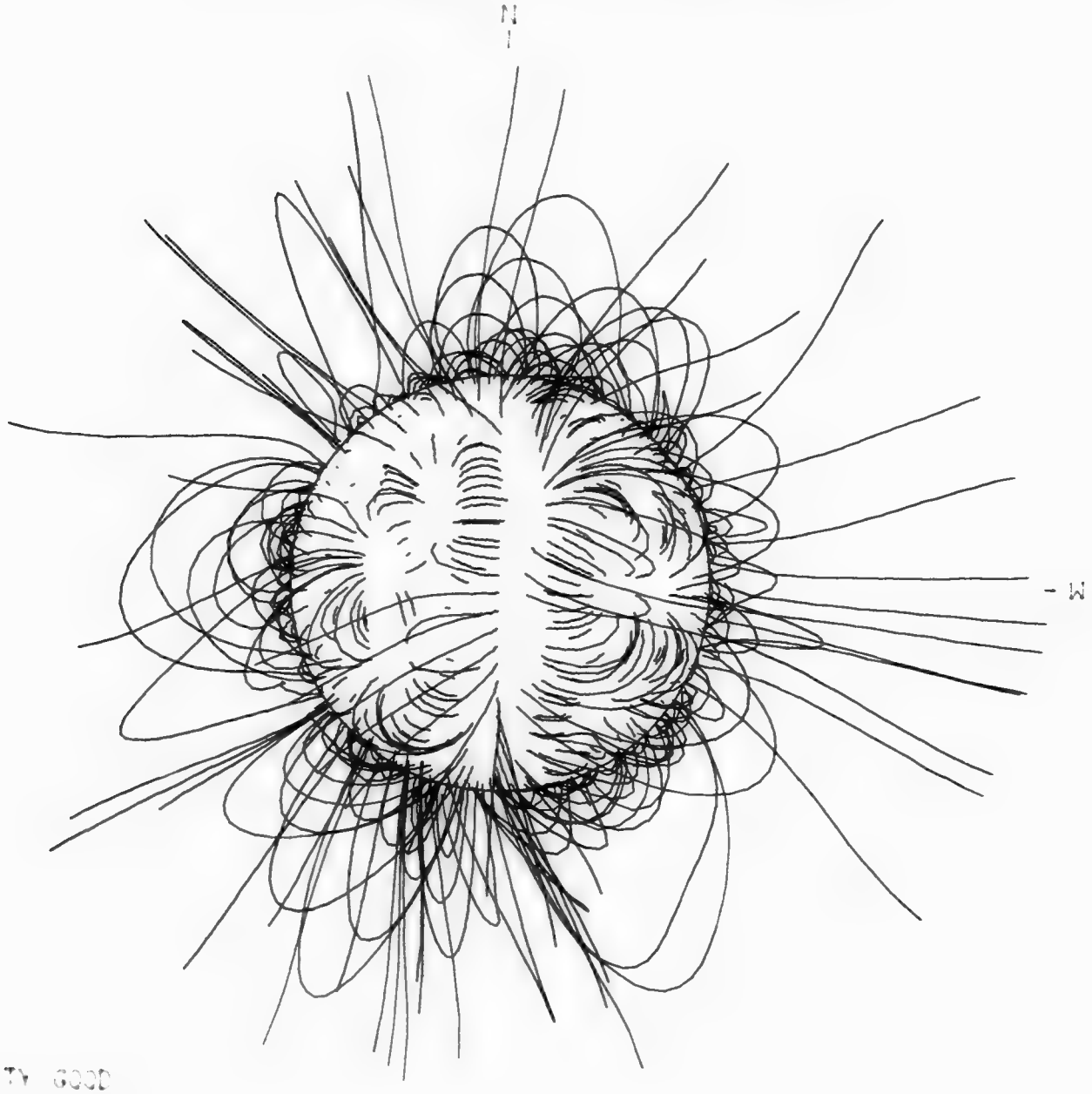
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



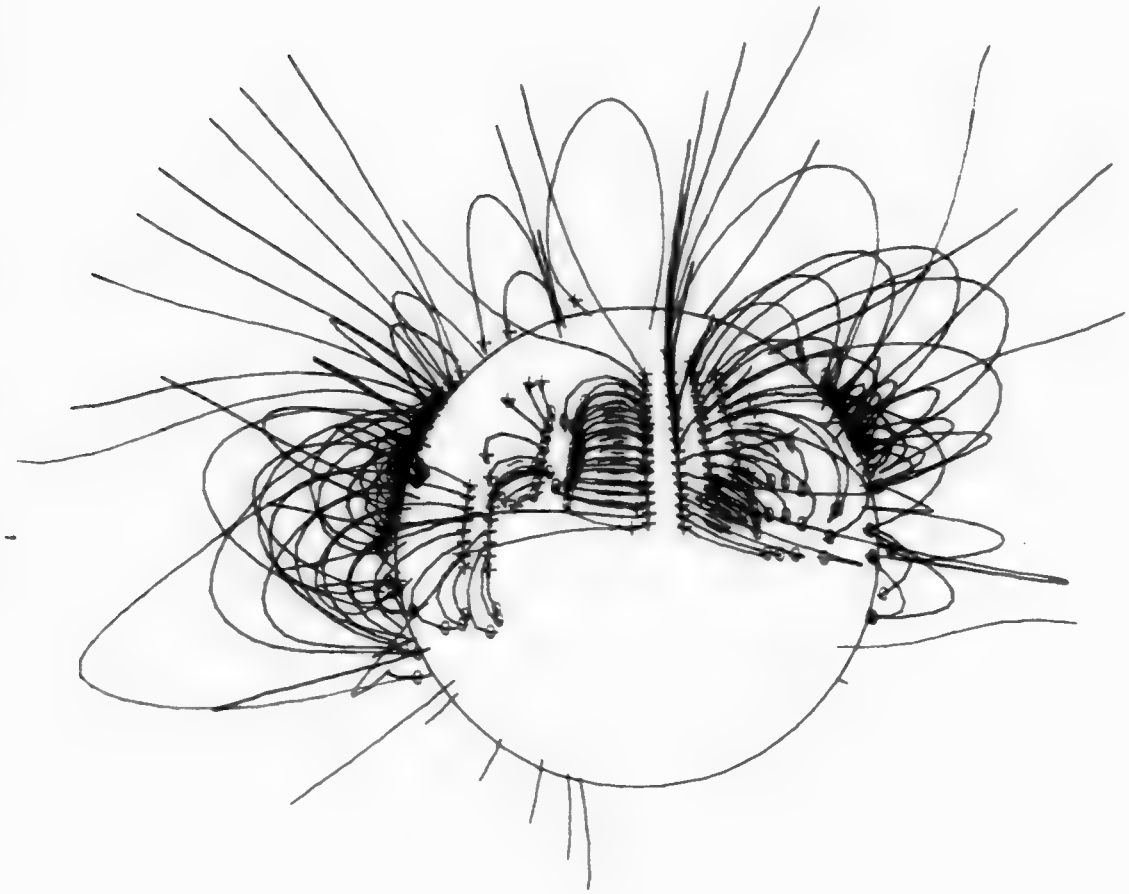
QUALITY GOOD

POLES DIRECT

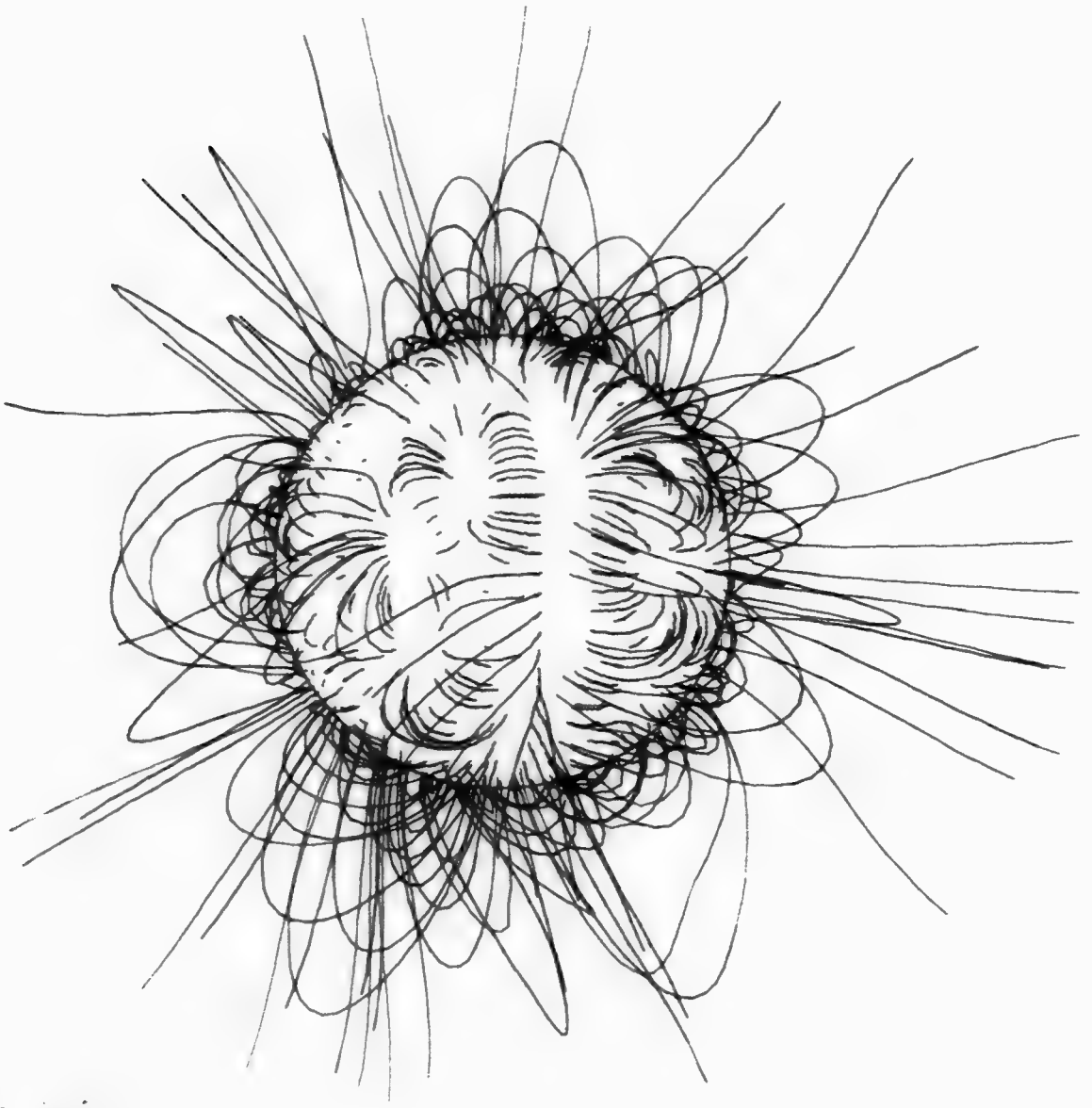
DATA WINDOW 1554.00

ROT. 1554 LONG. 221°

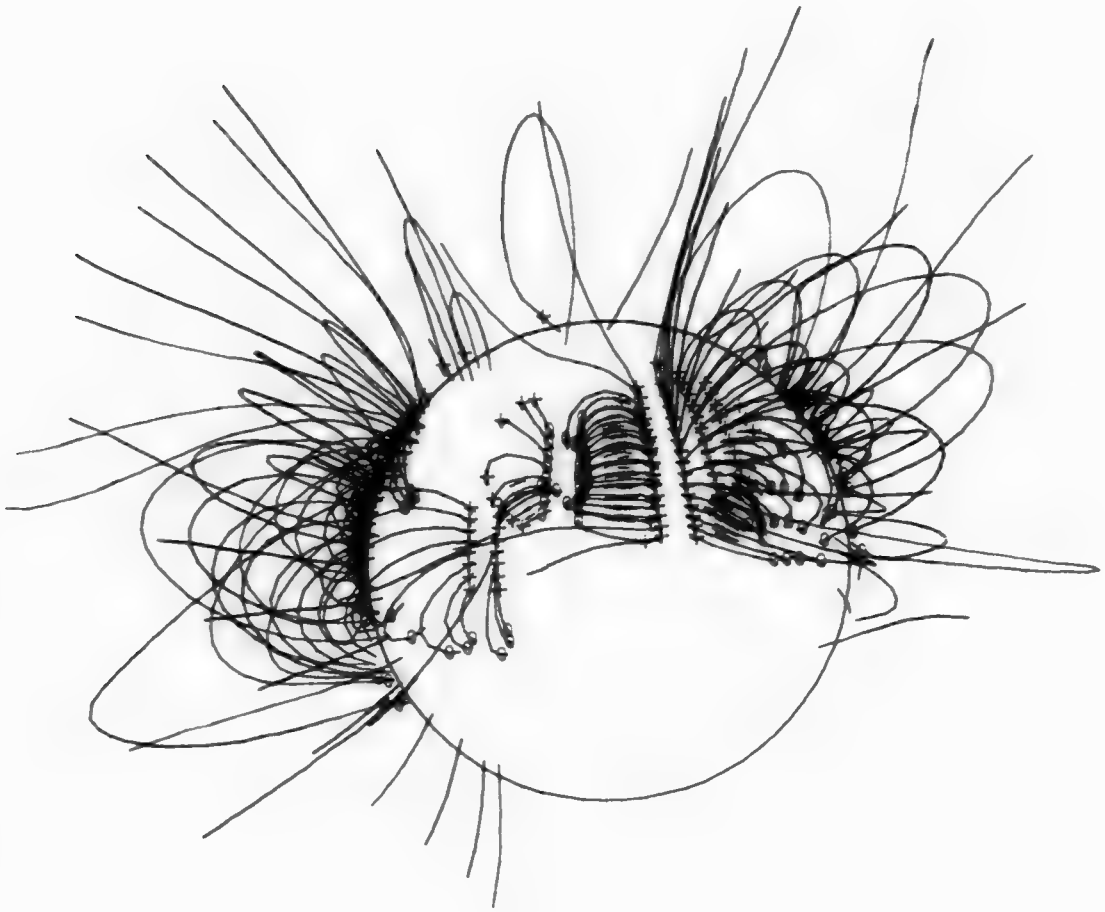
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



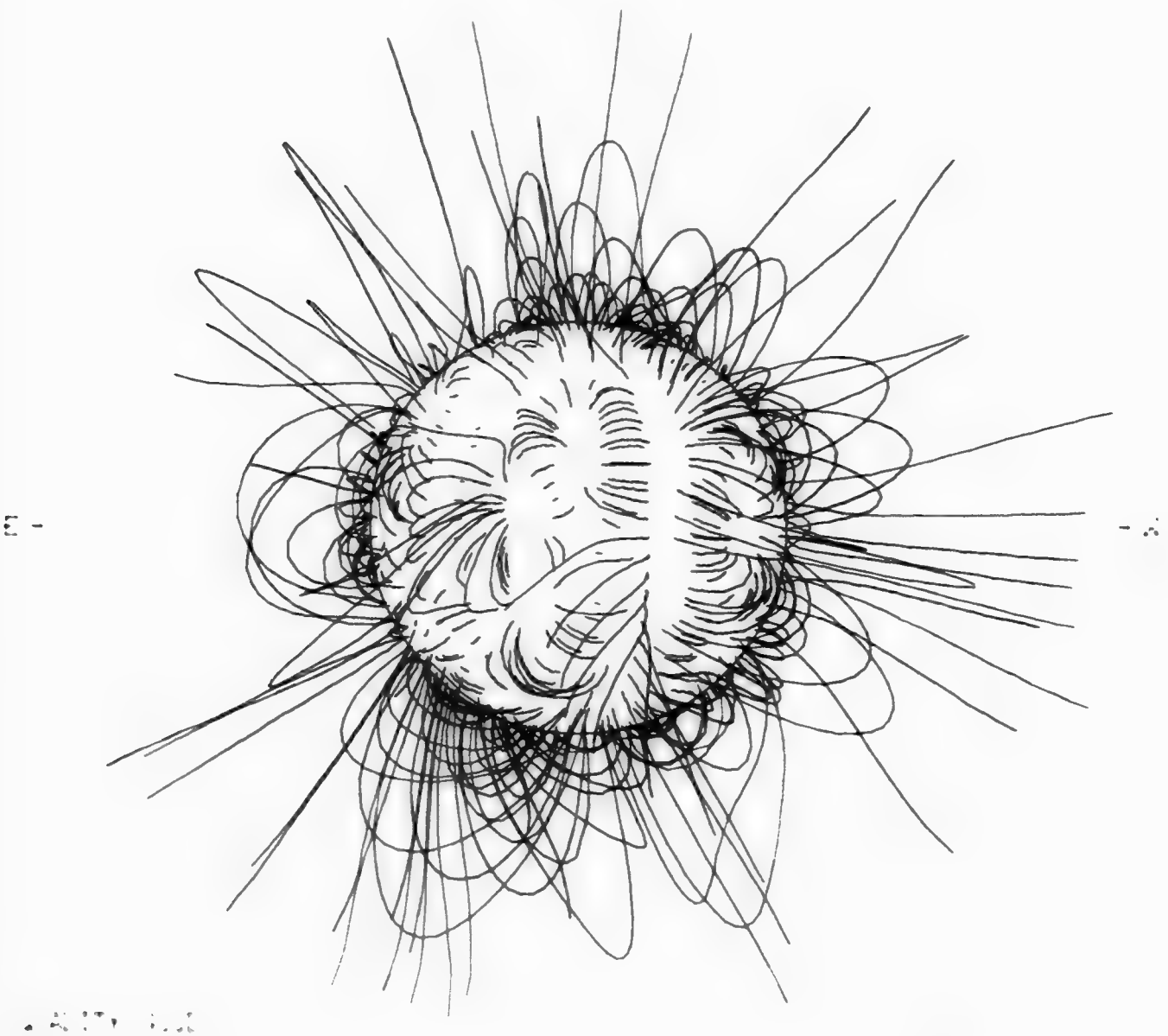
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



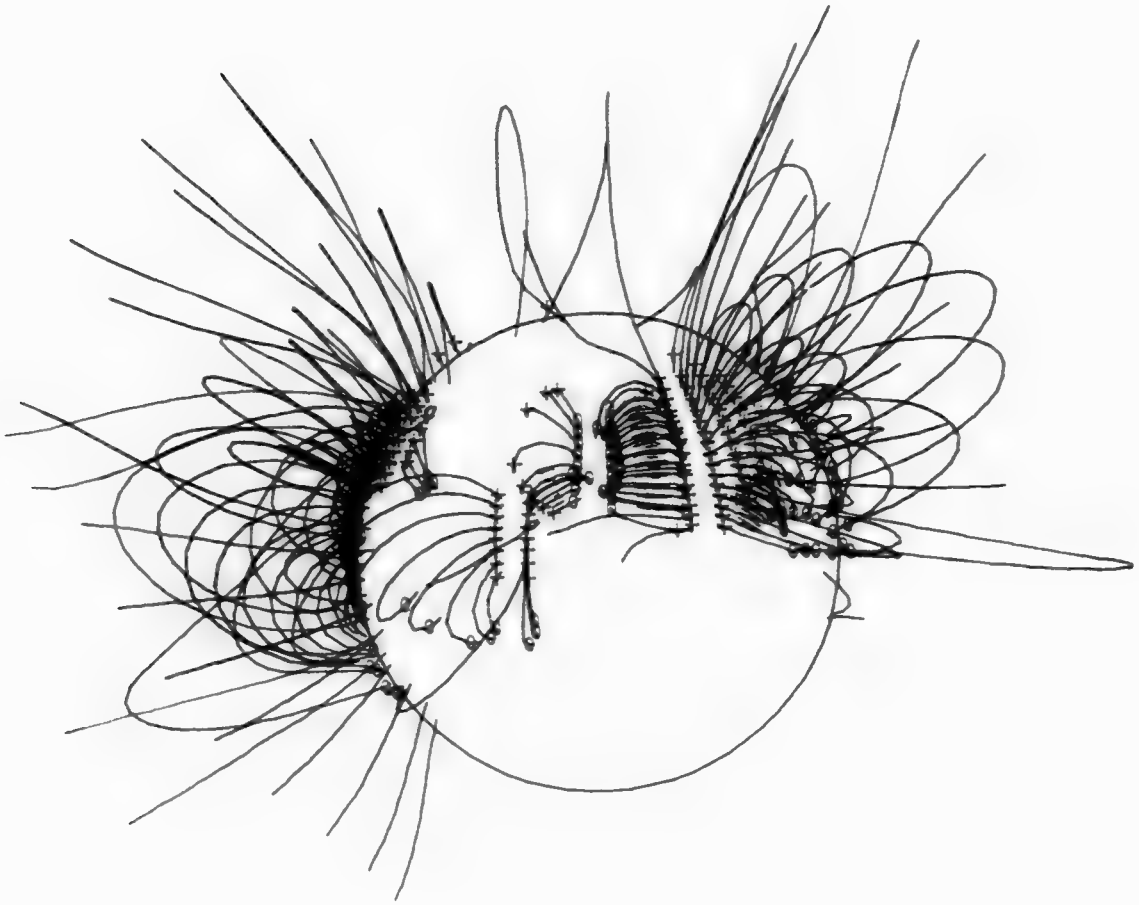
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



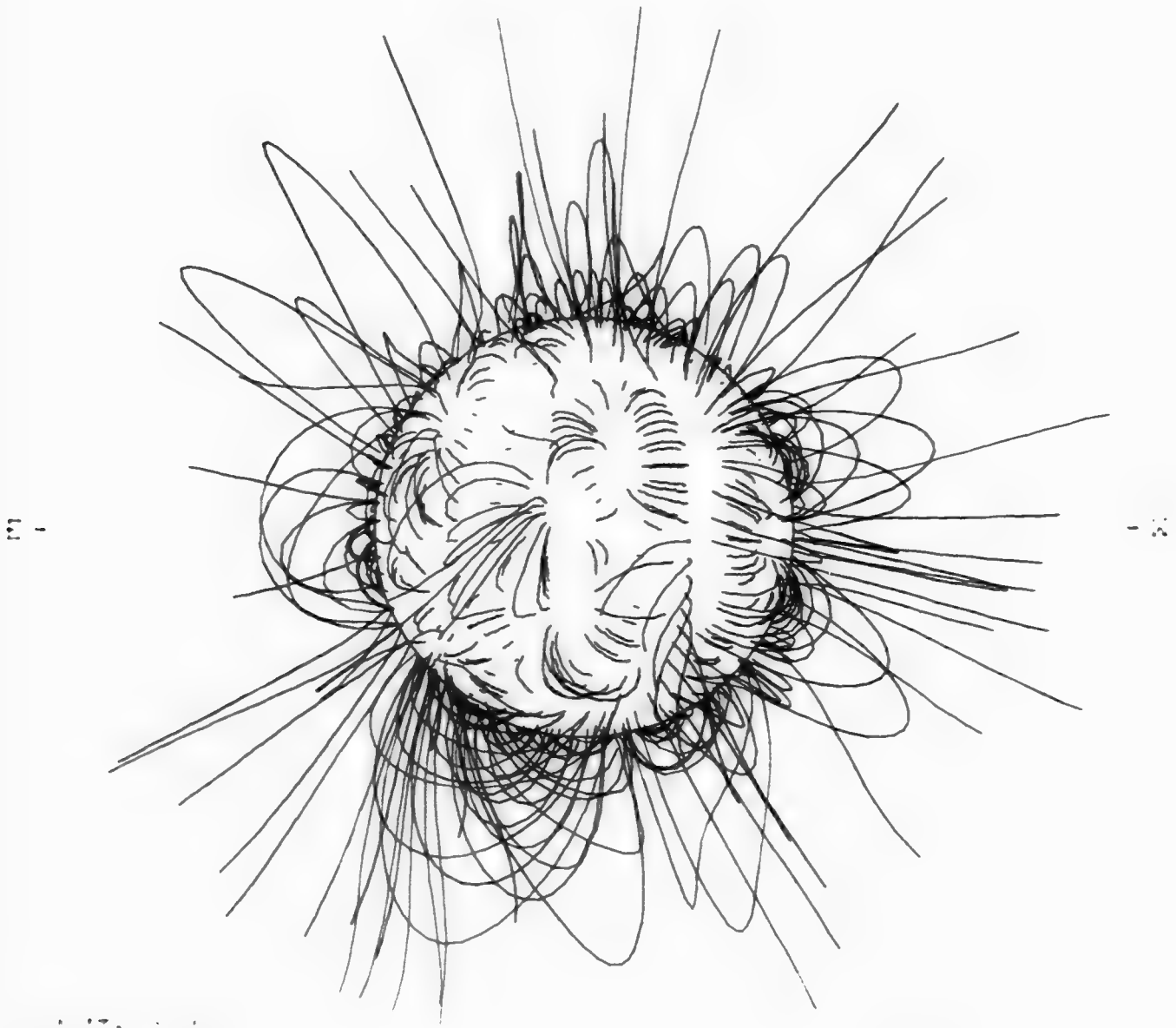
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



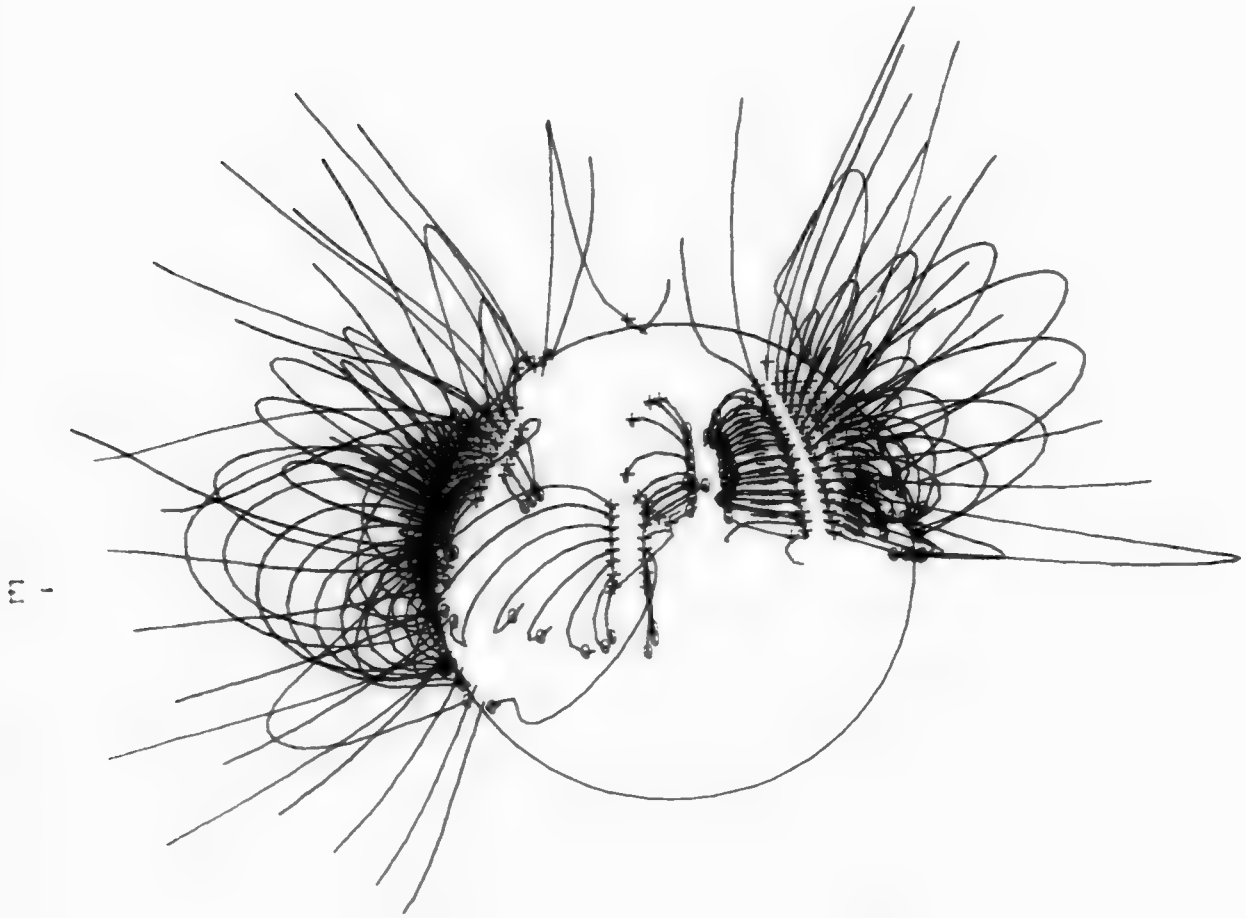
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



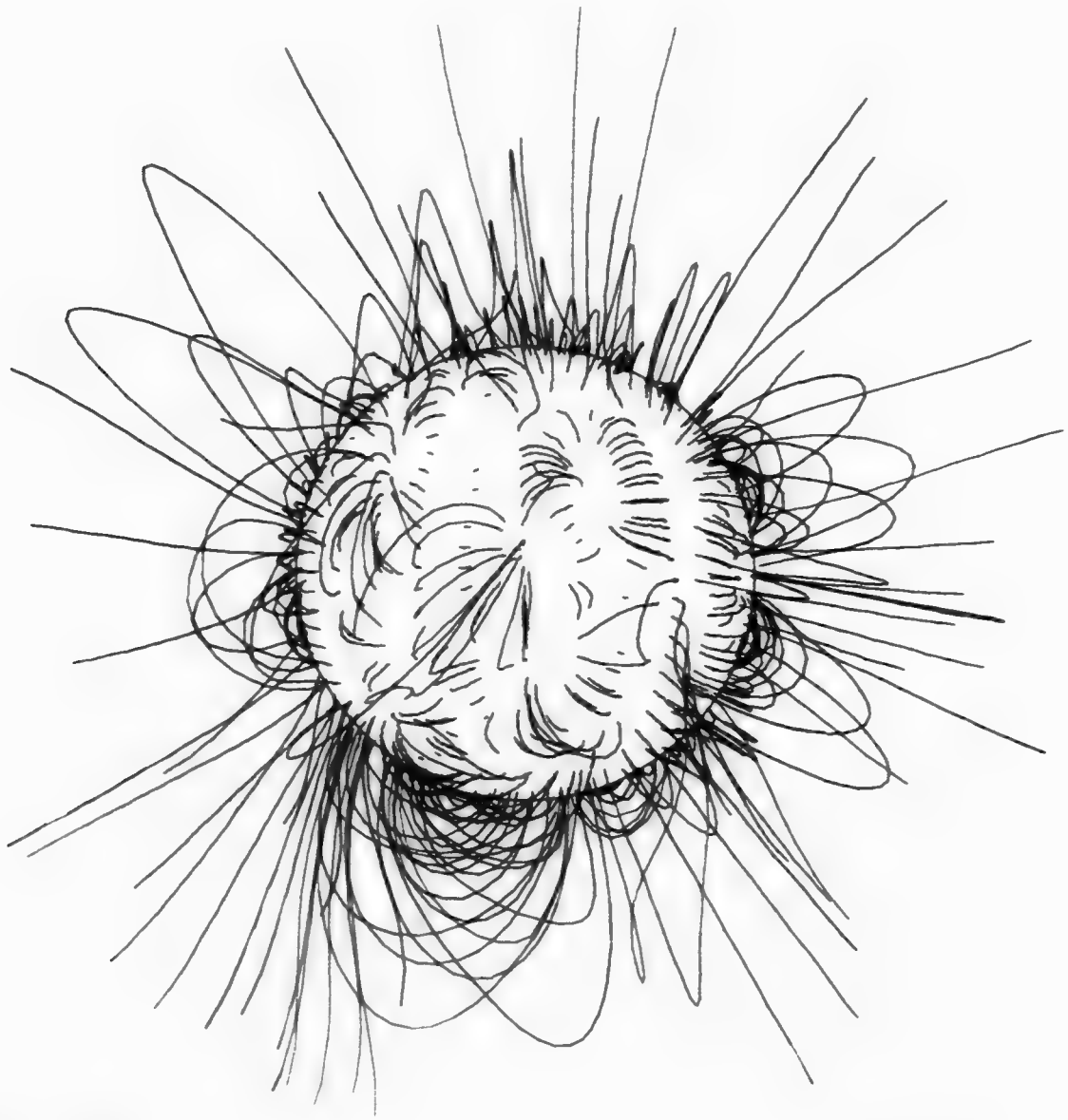
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



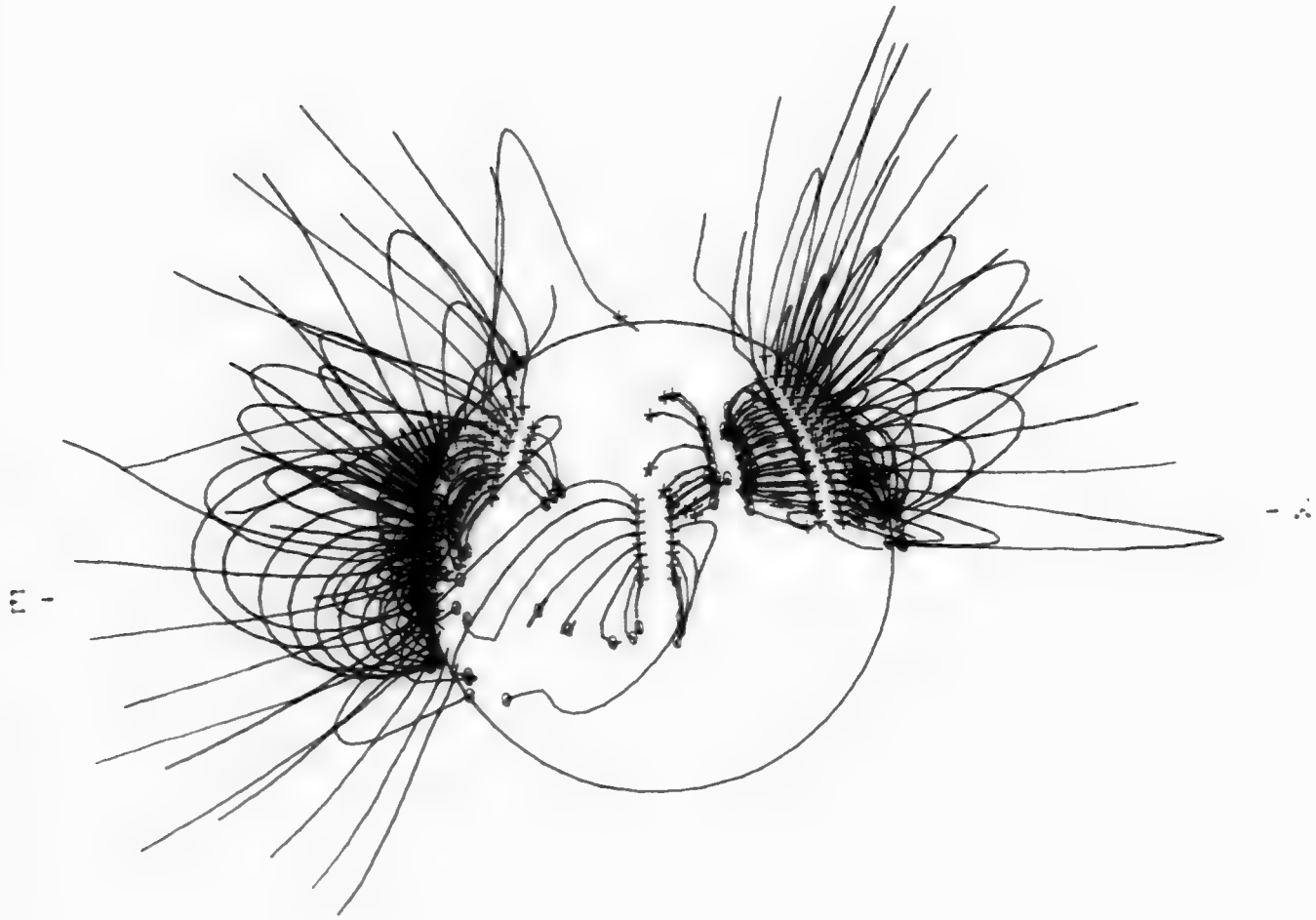
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



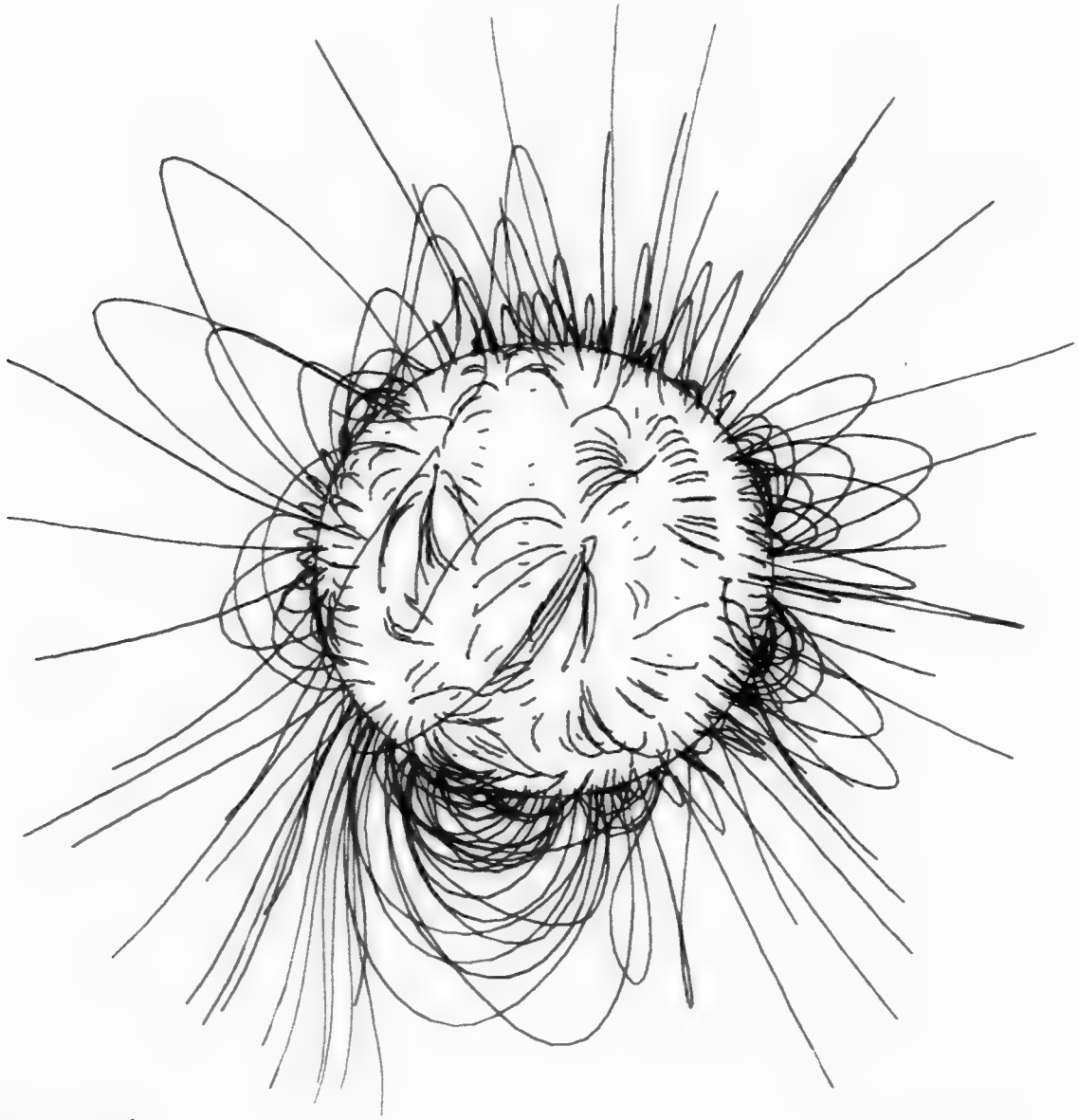
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



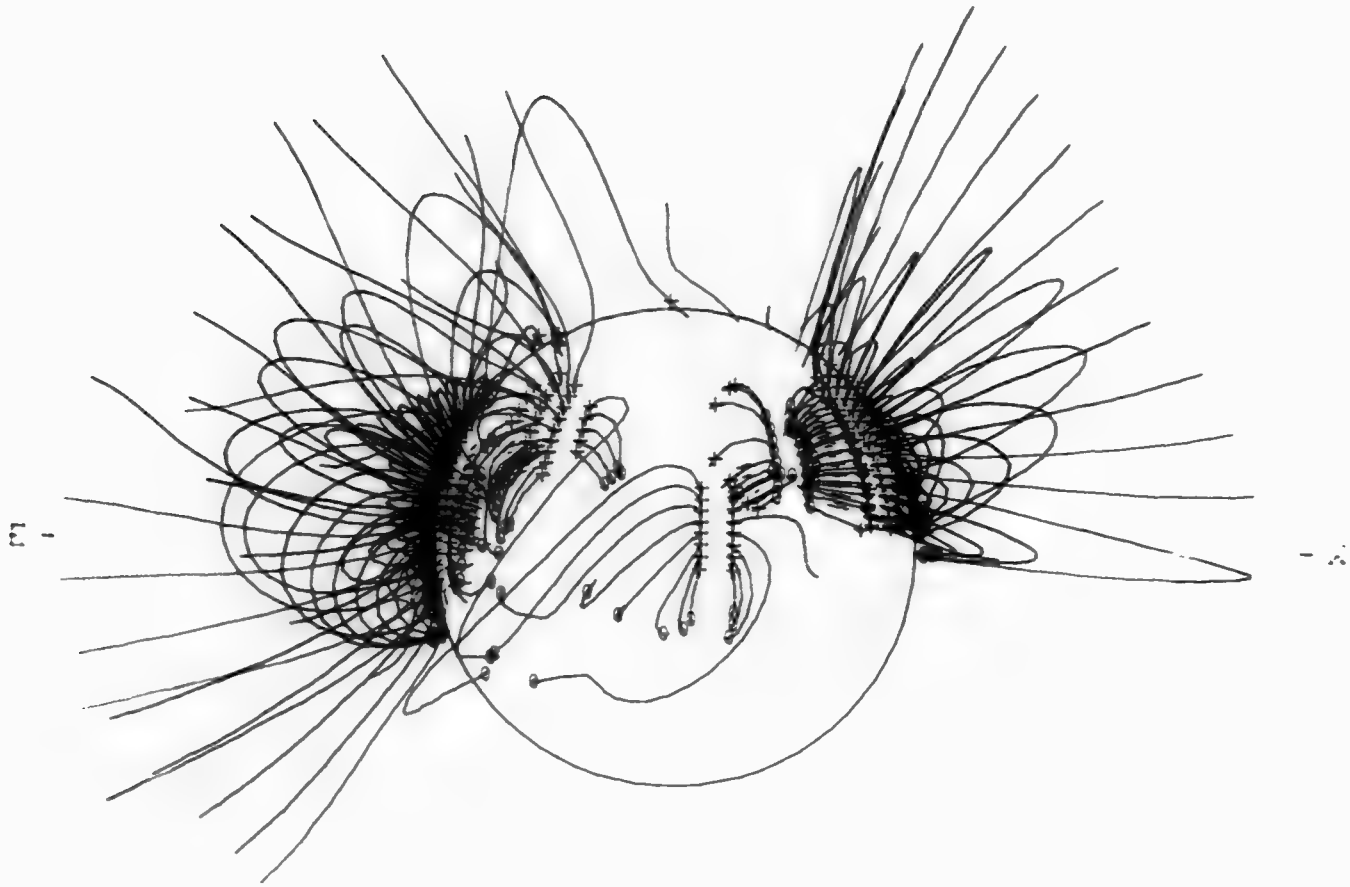
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



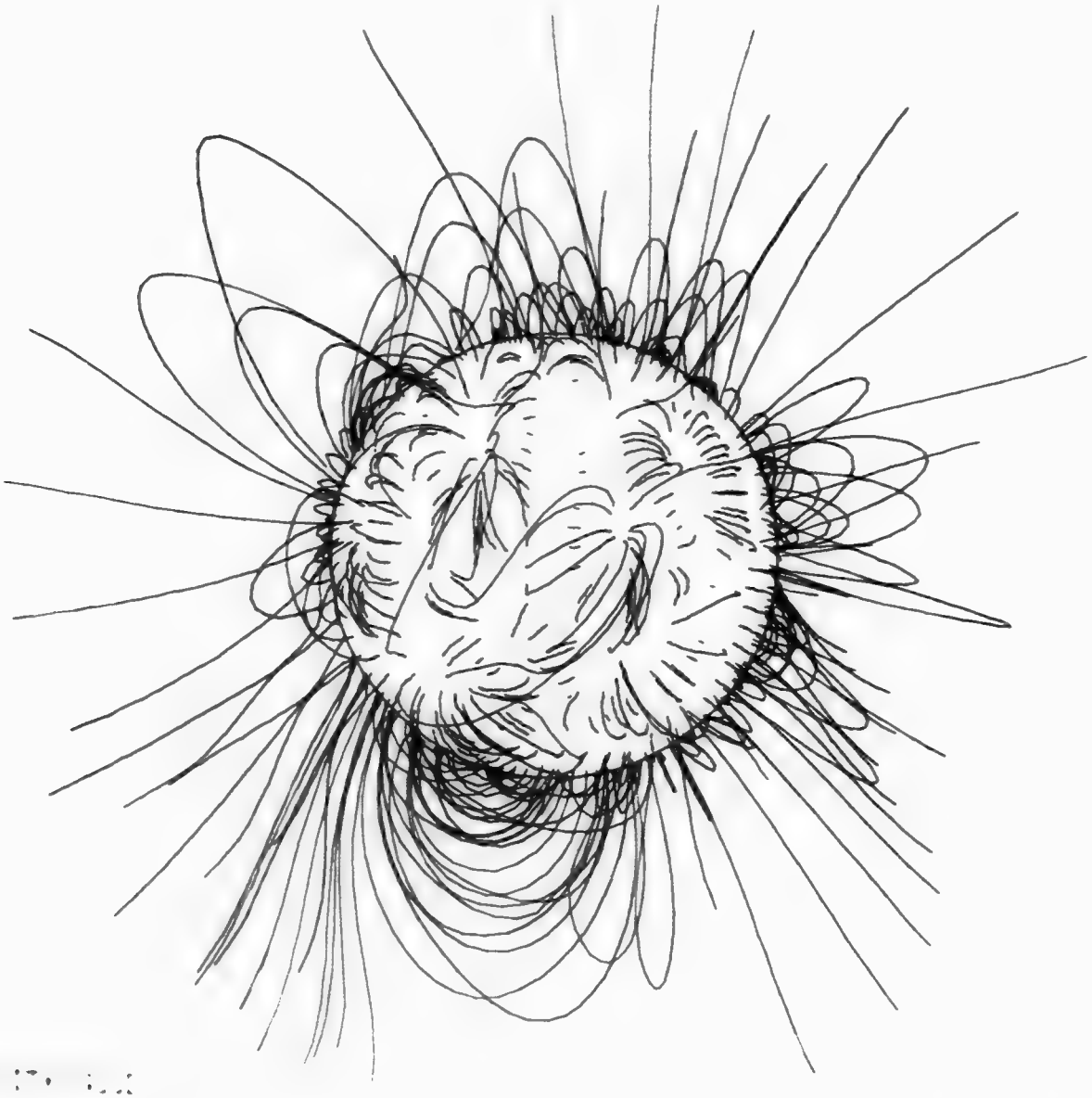
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



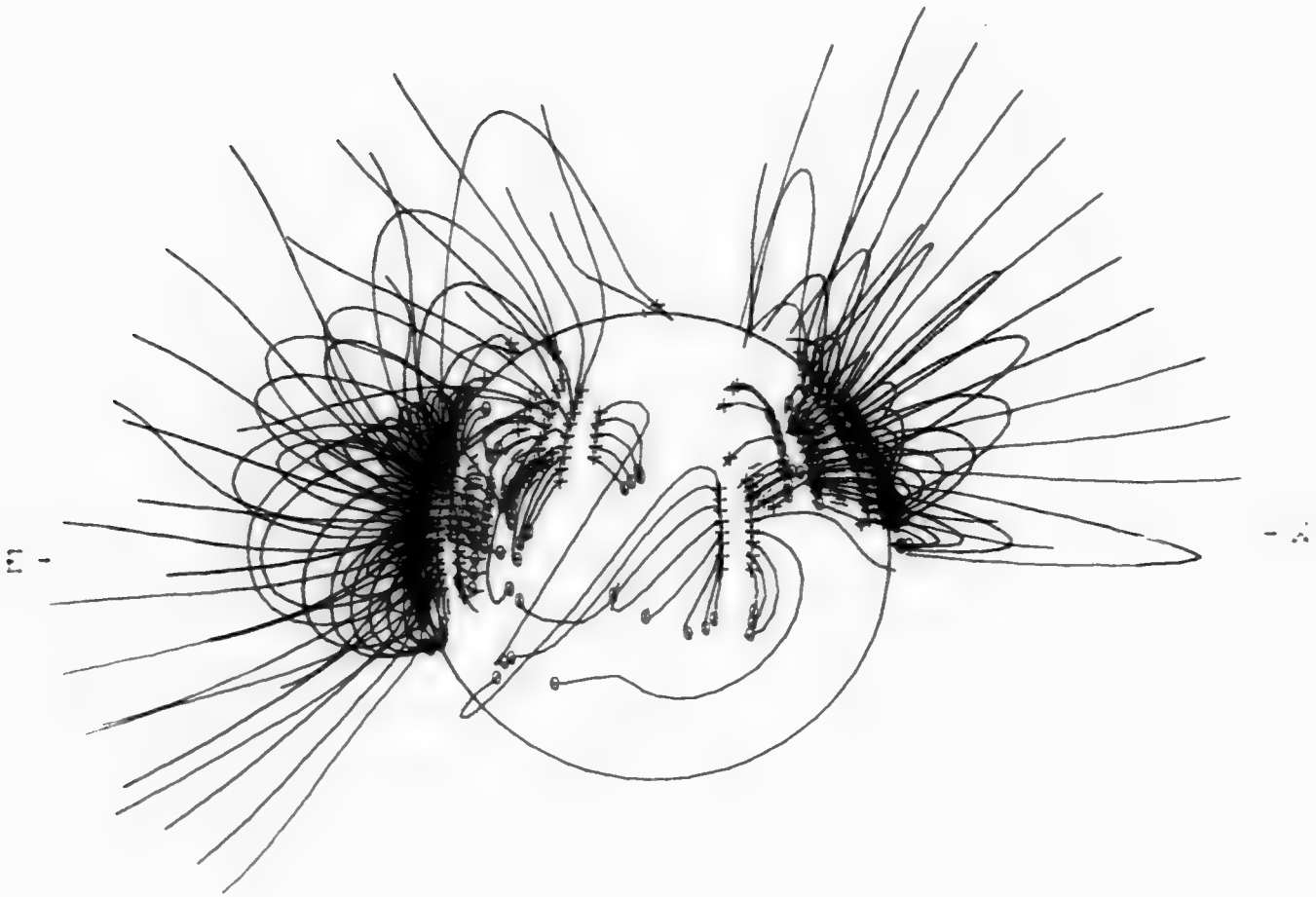
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



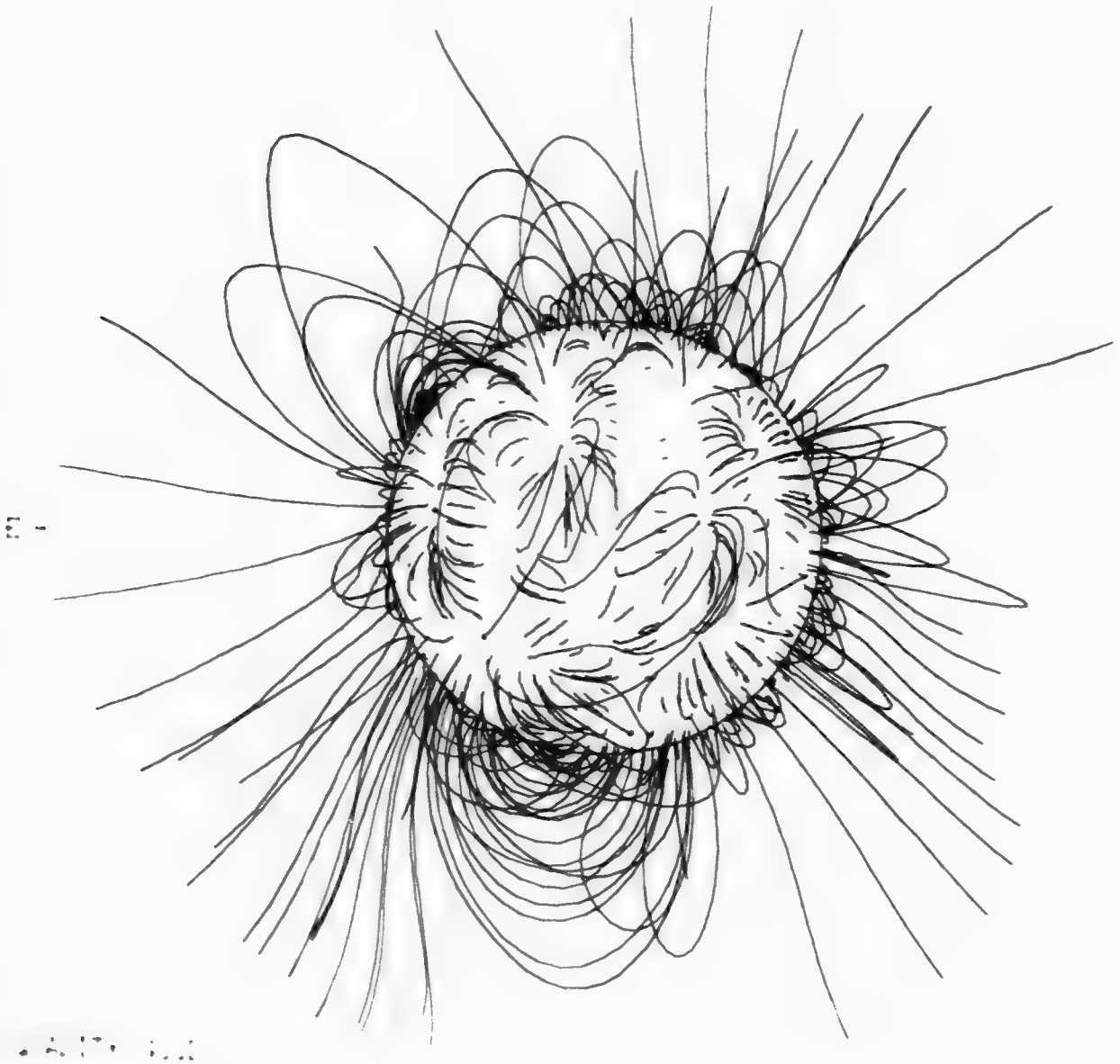
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



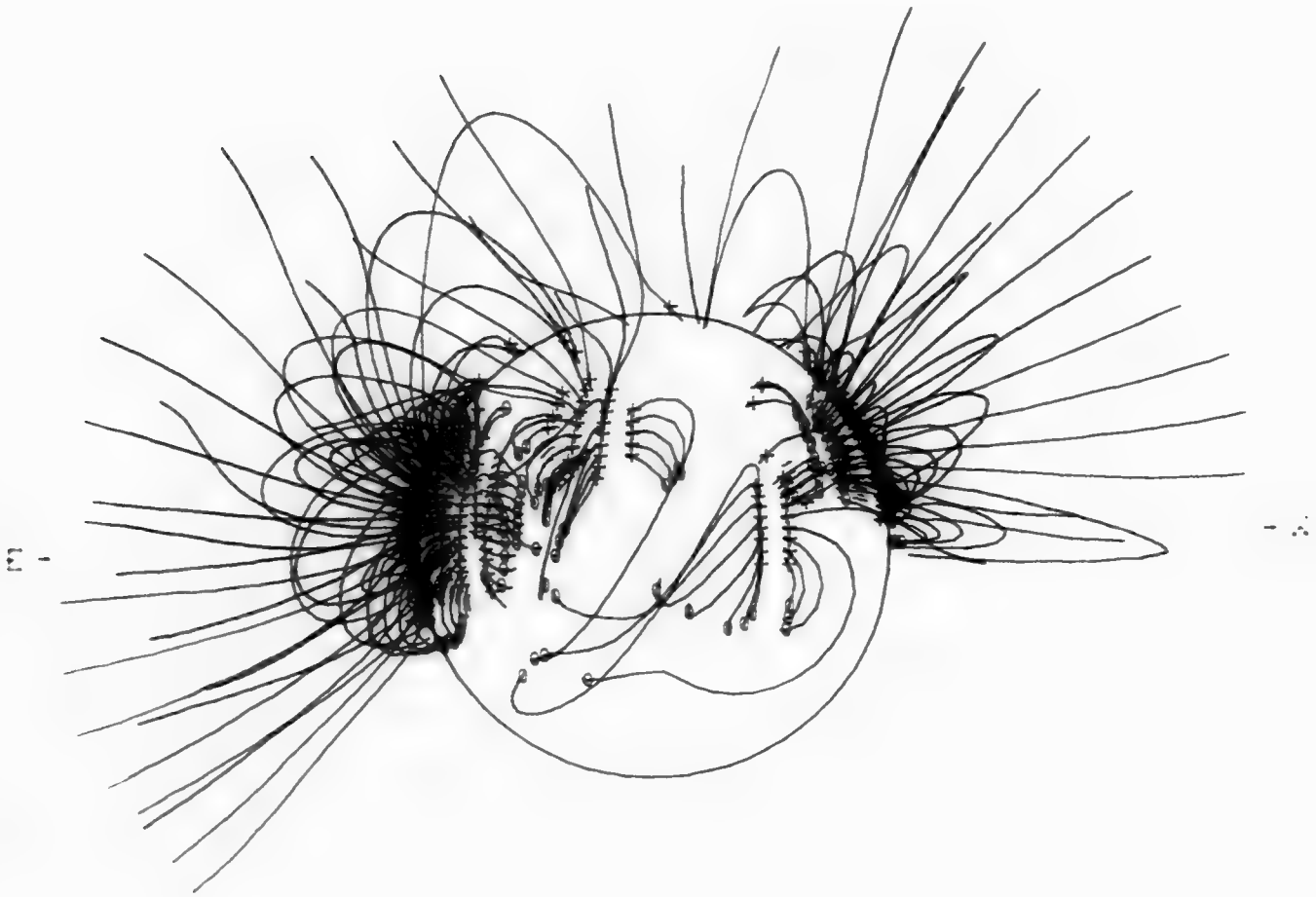
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



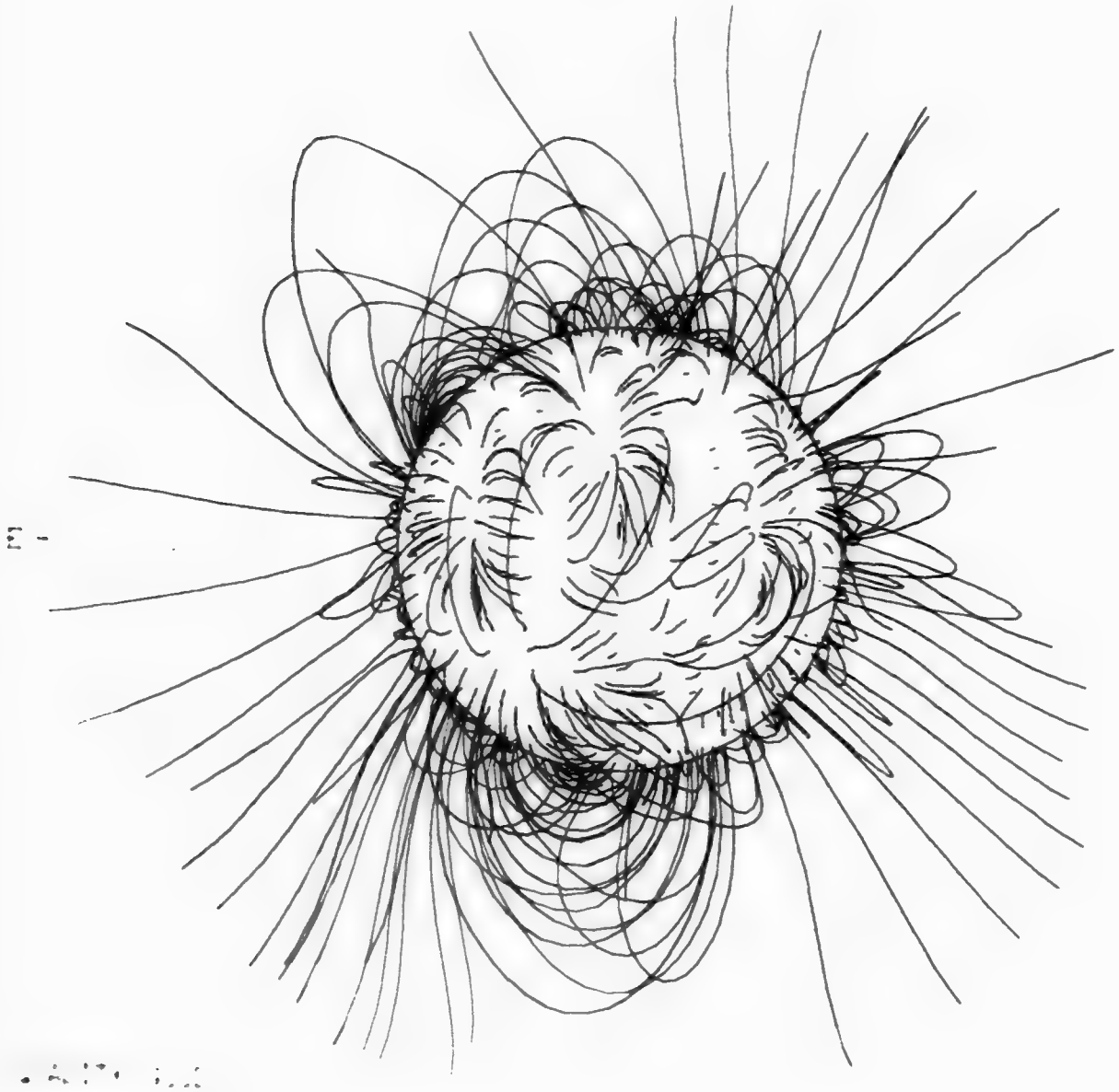
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



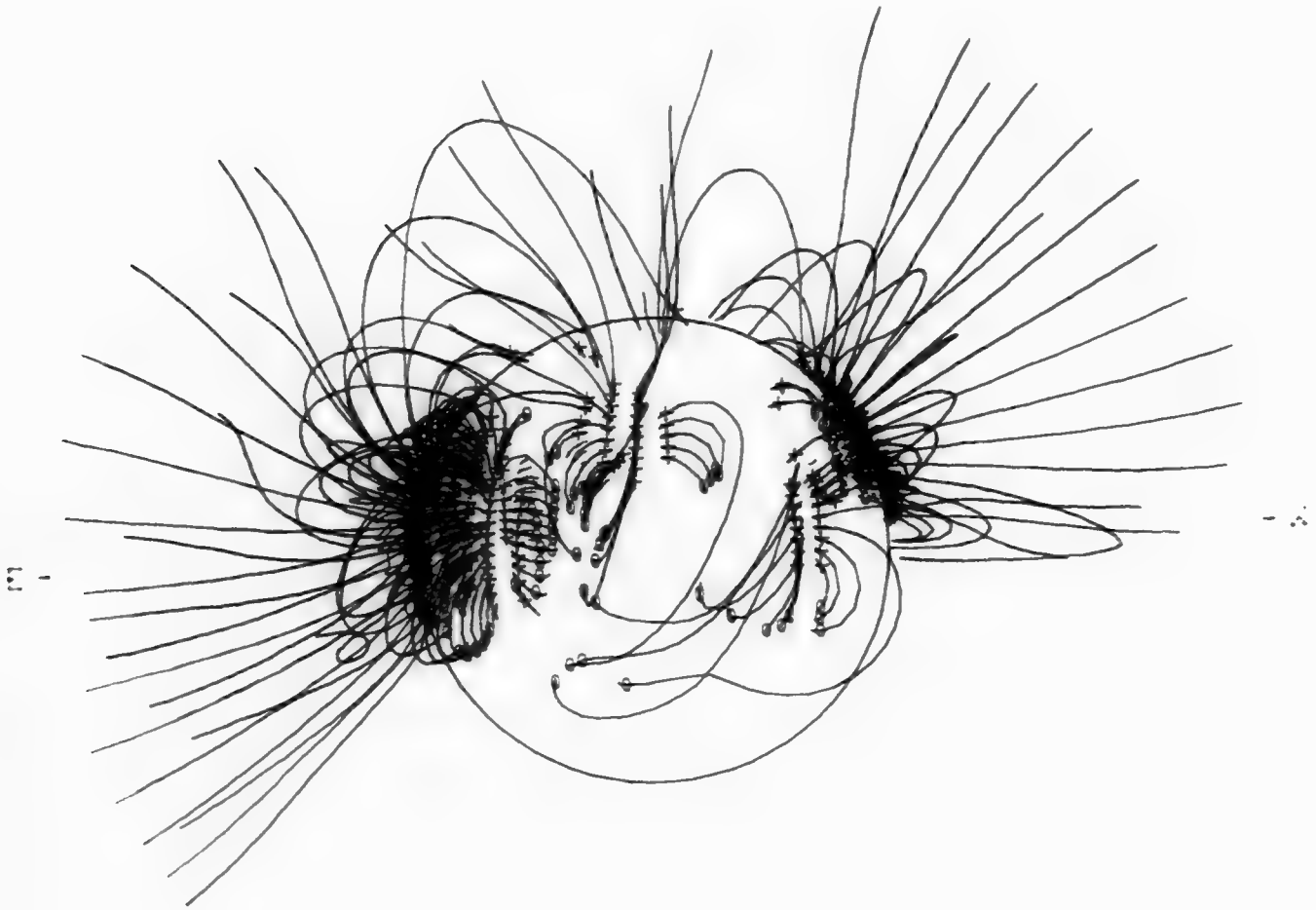
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



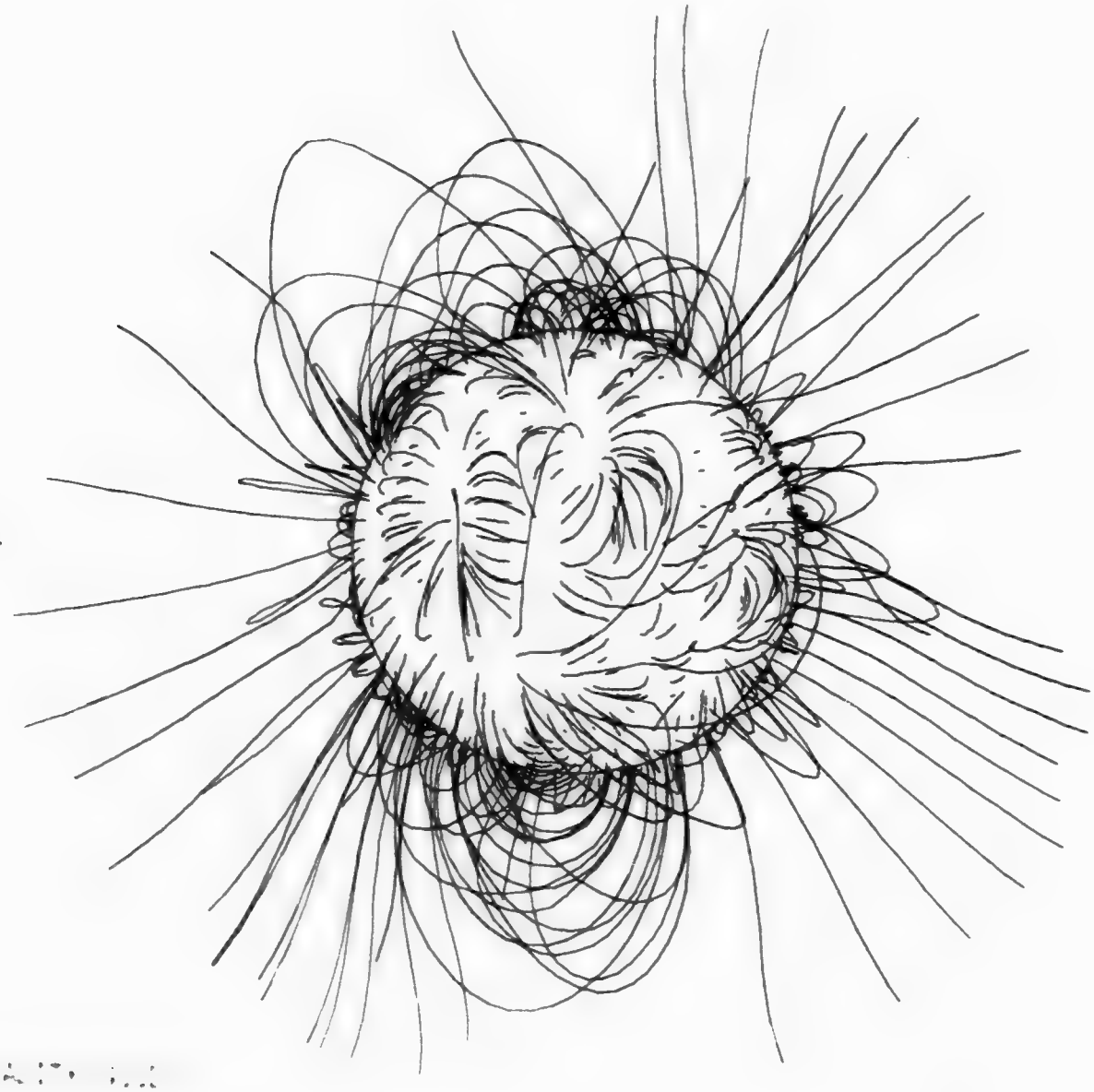
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



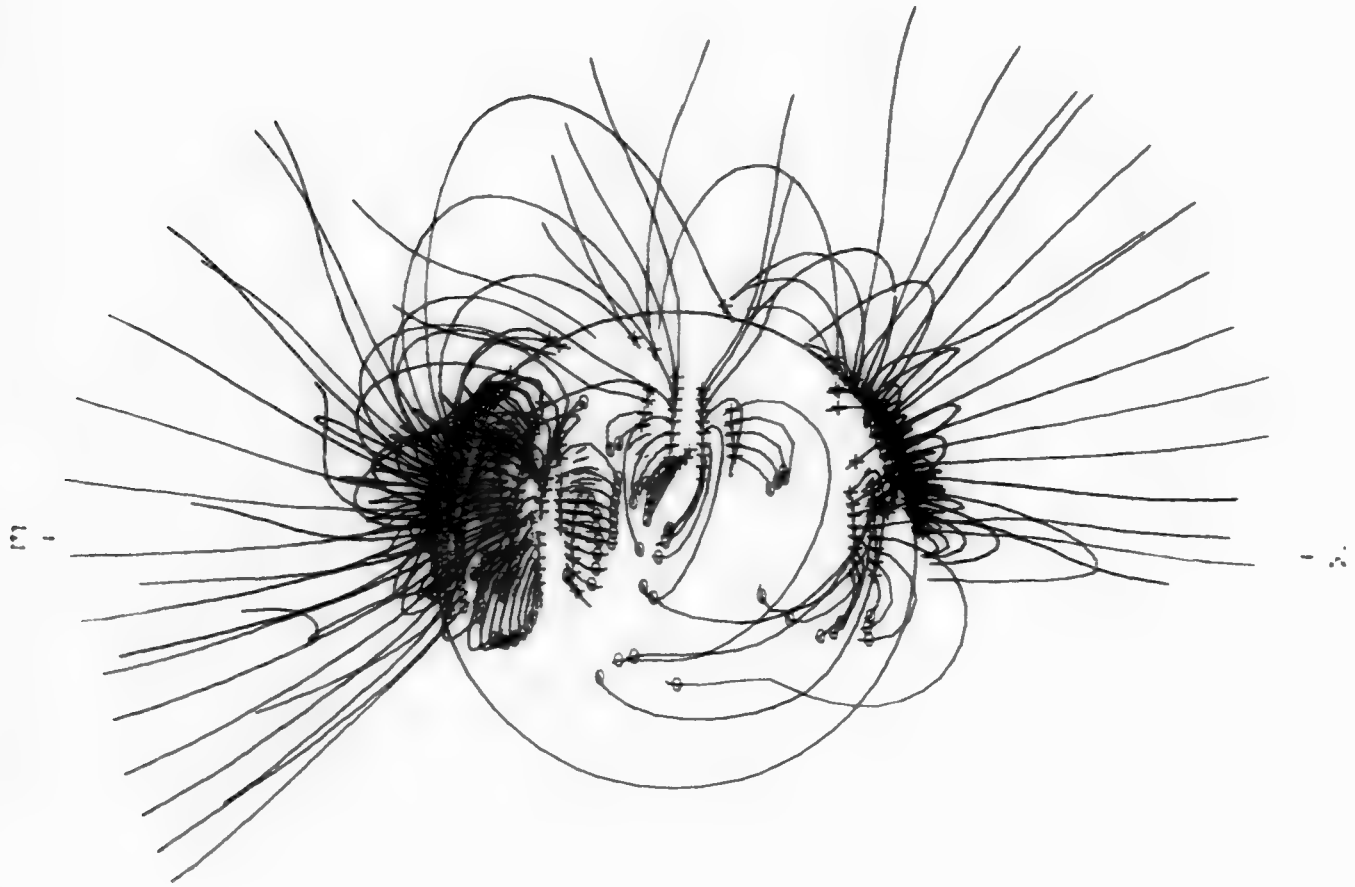
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



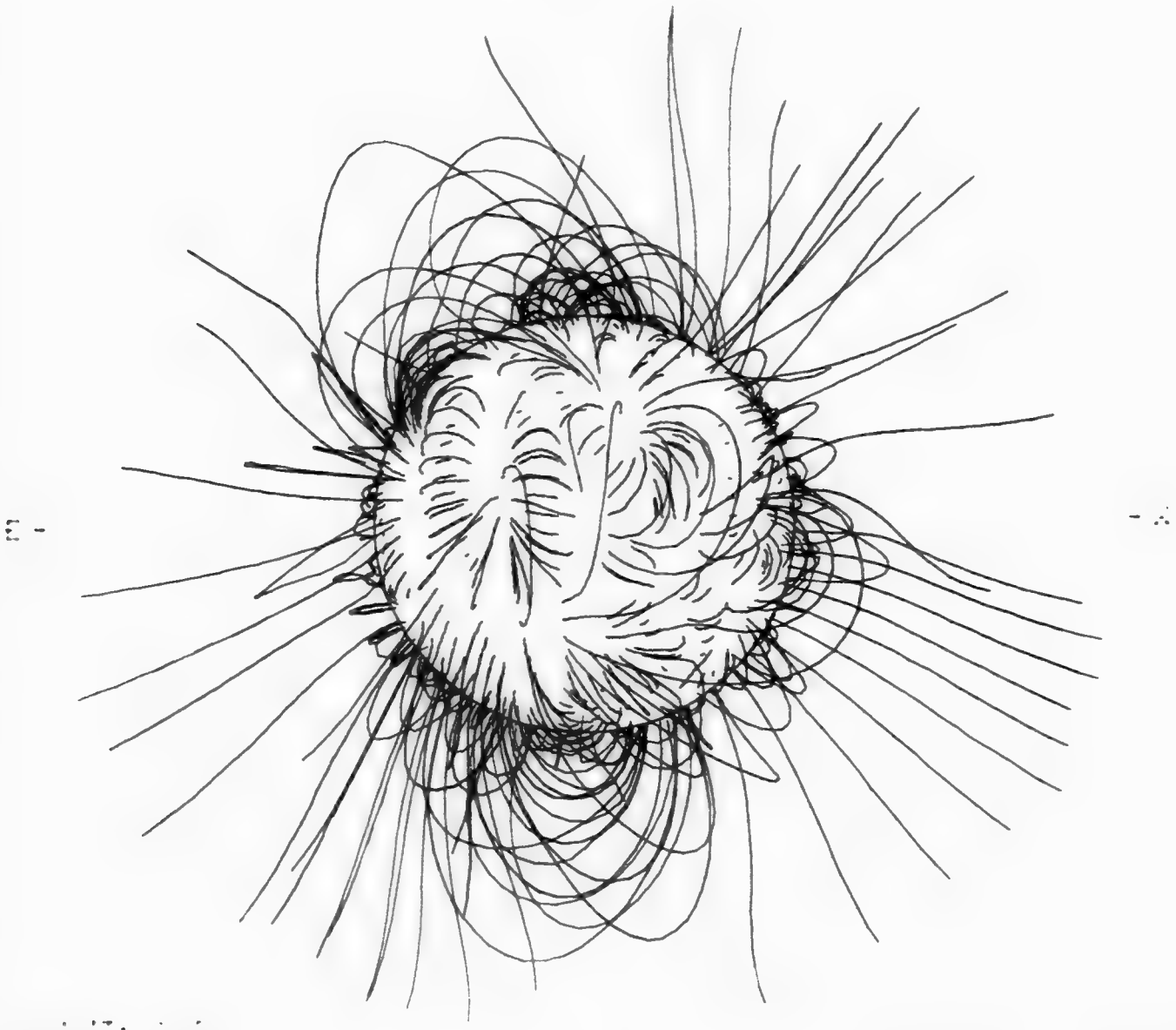
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



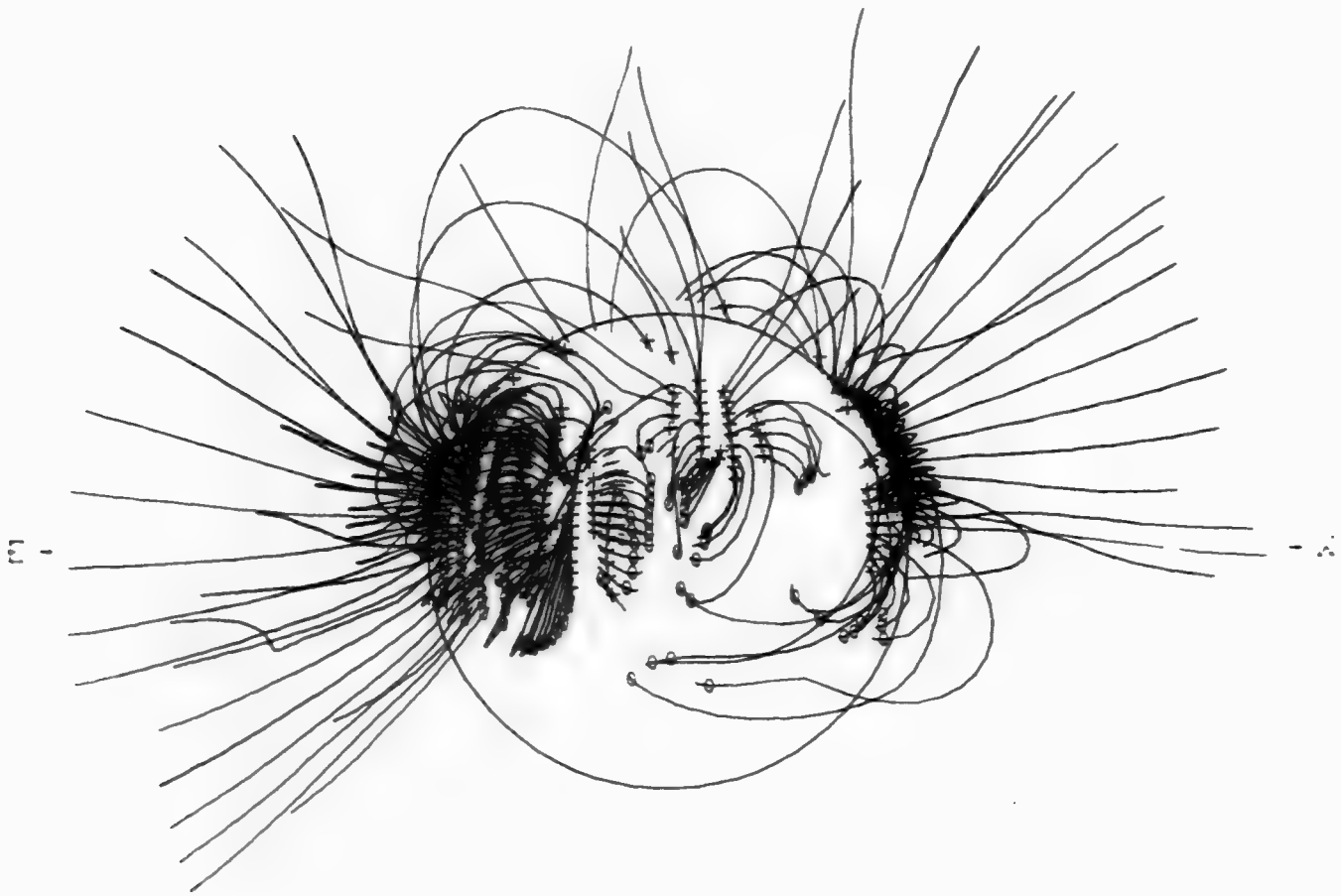
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



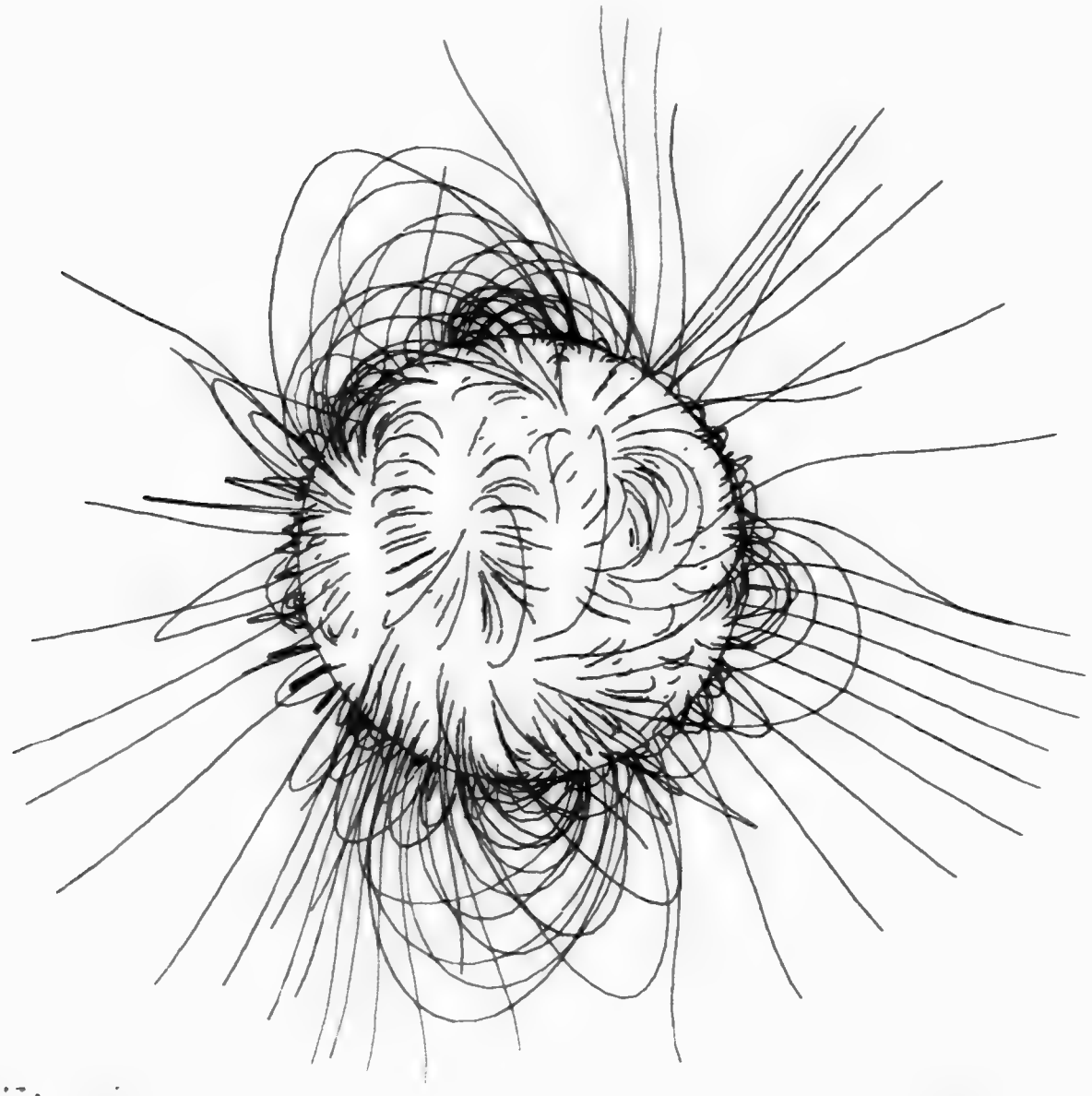
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



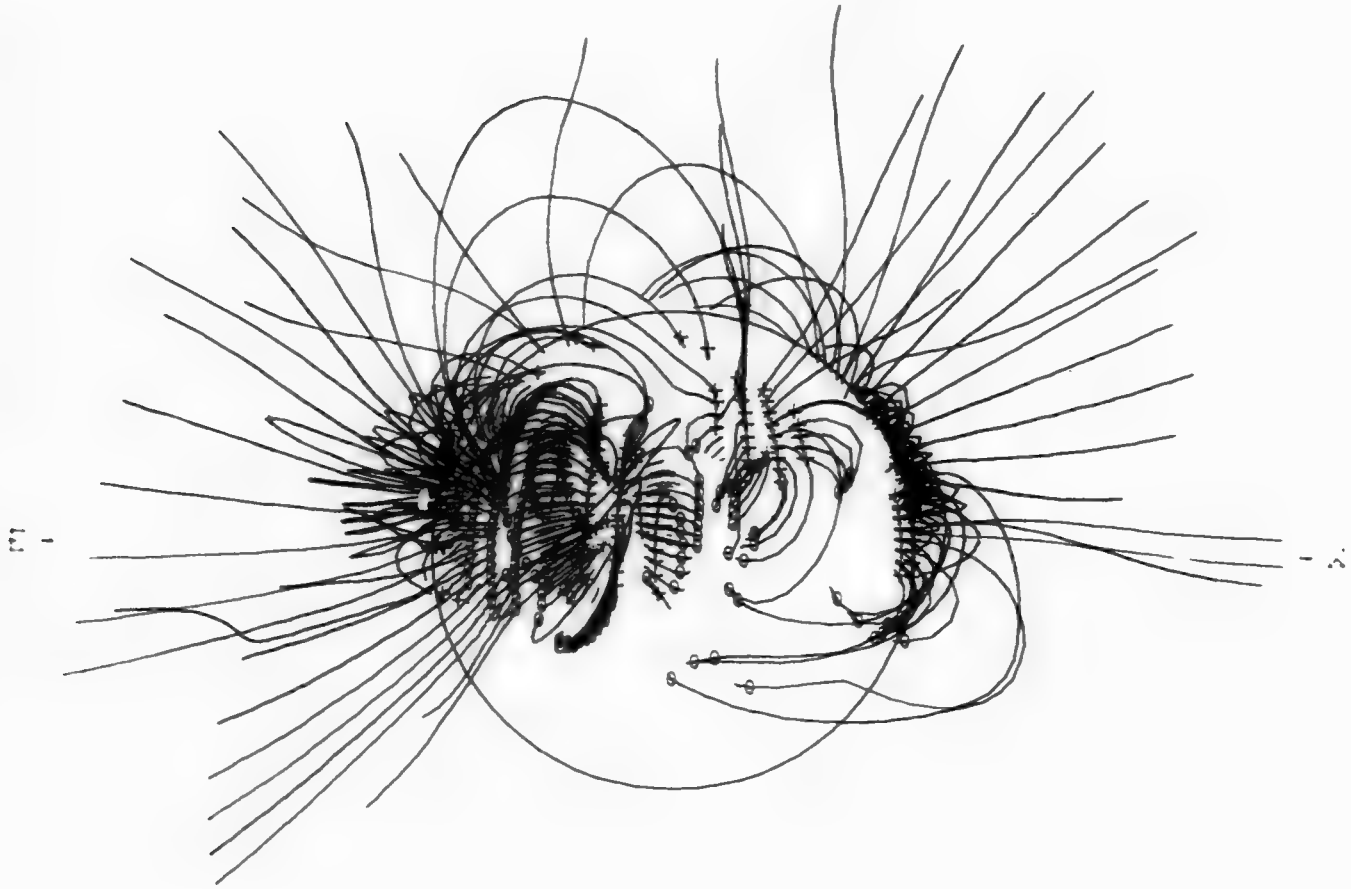
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



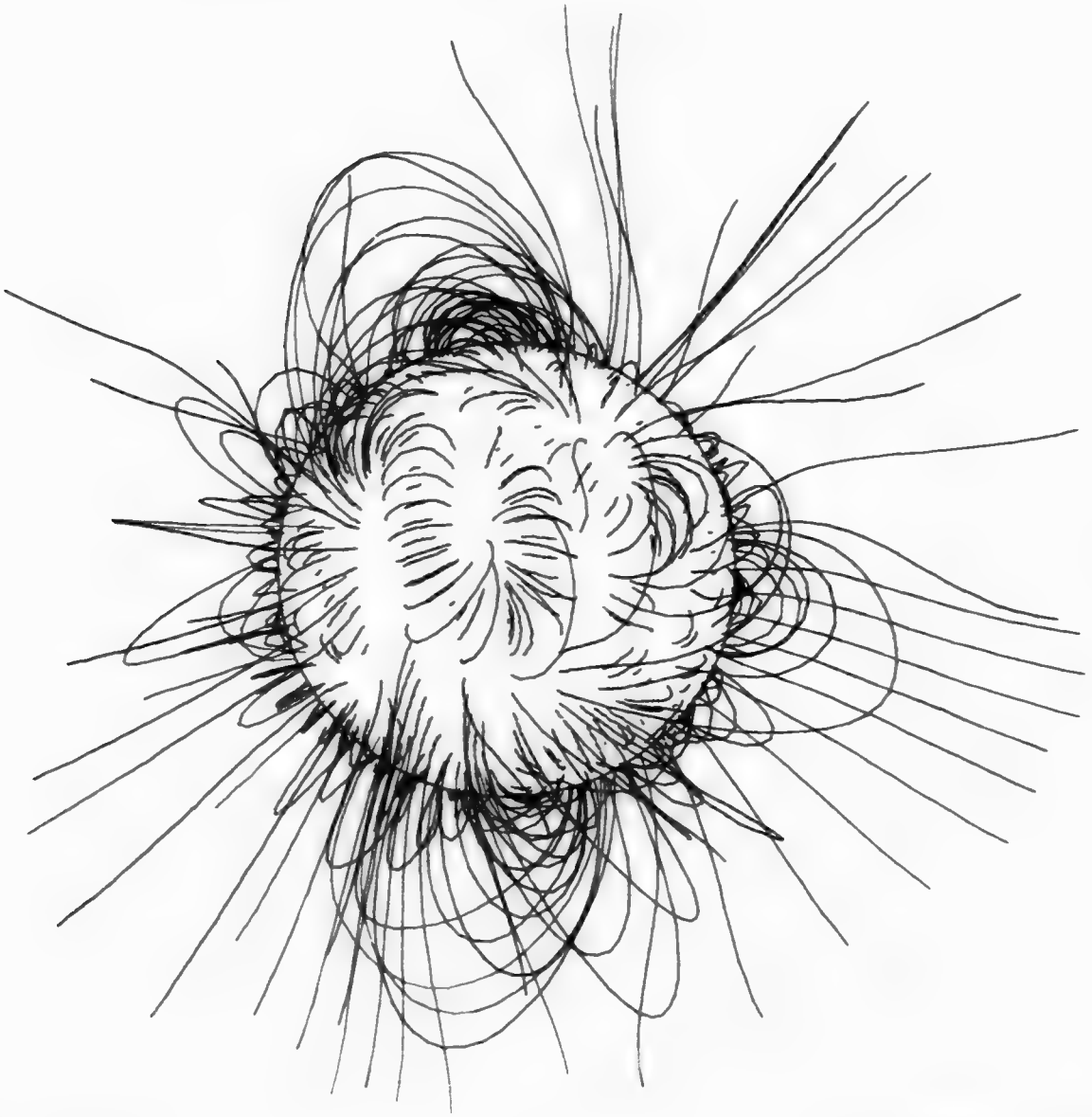
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

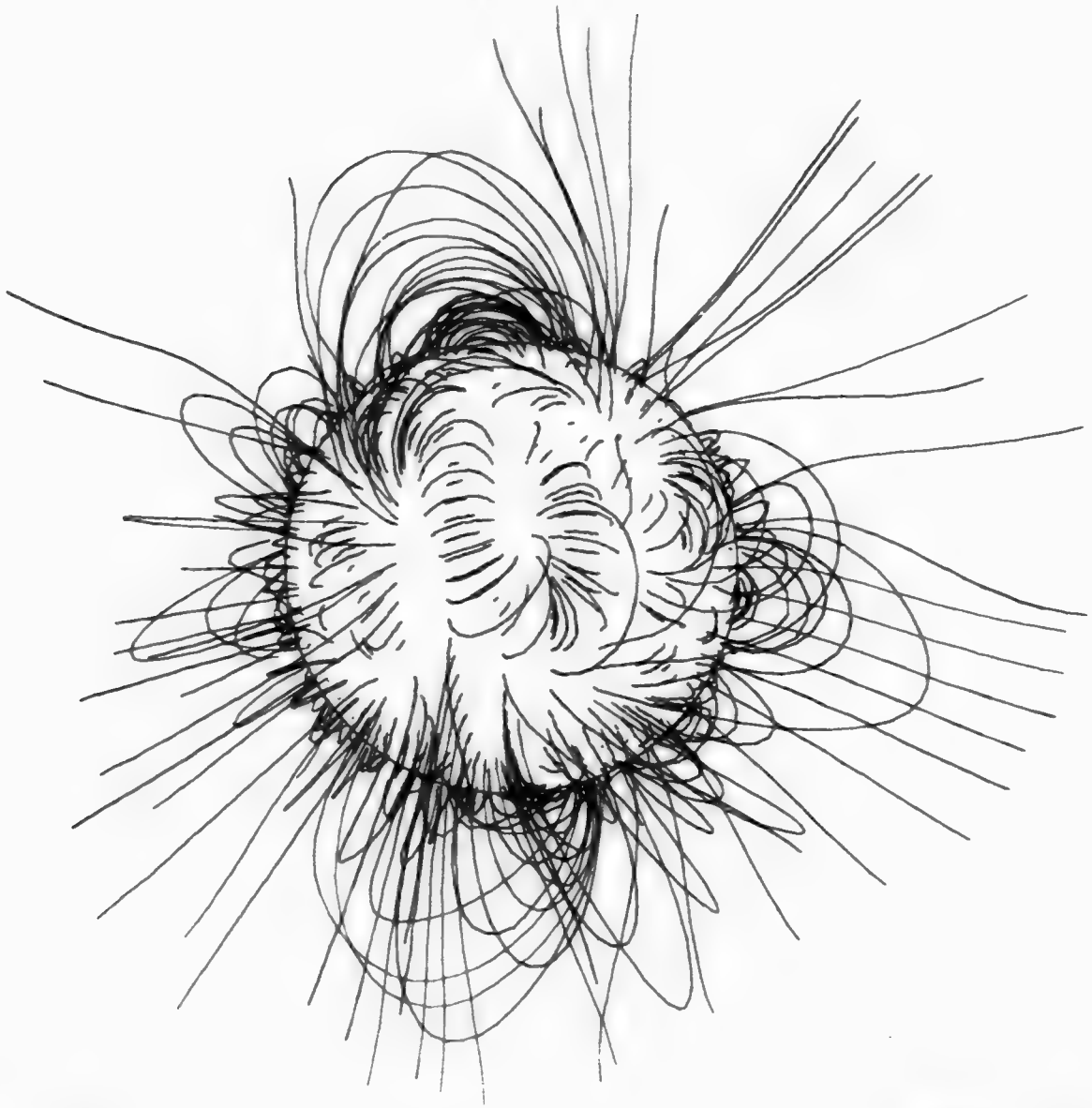


HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



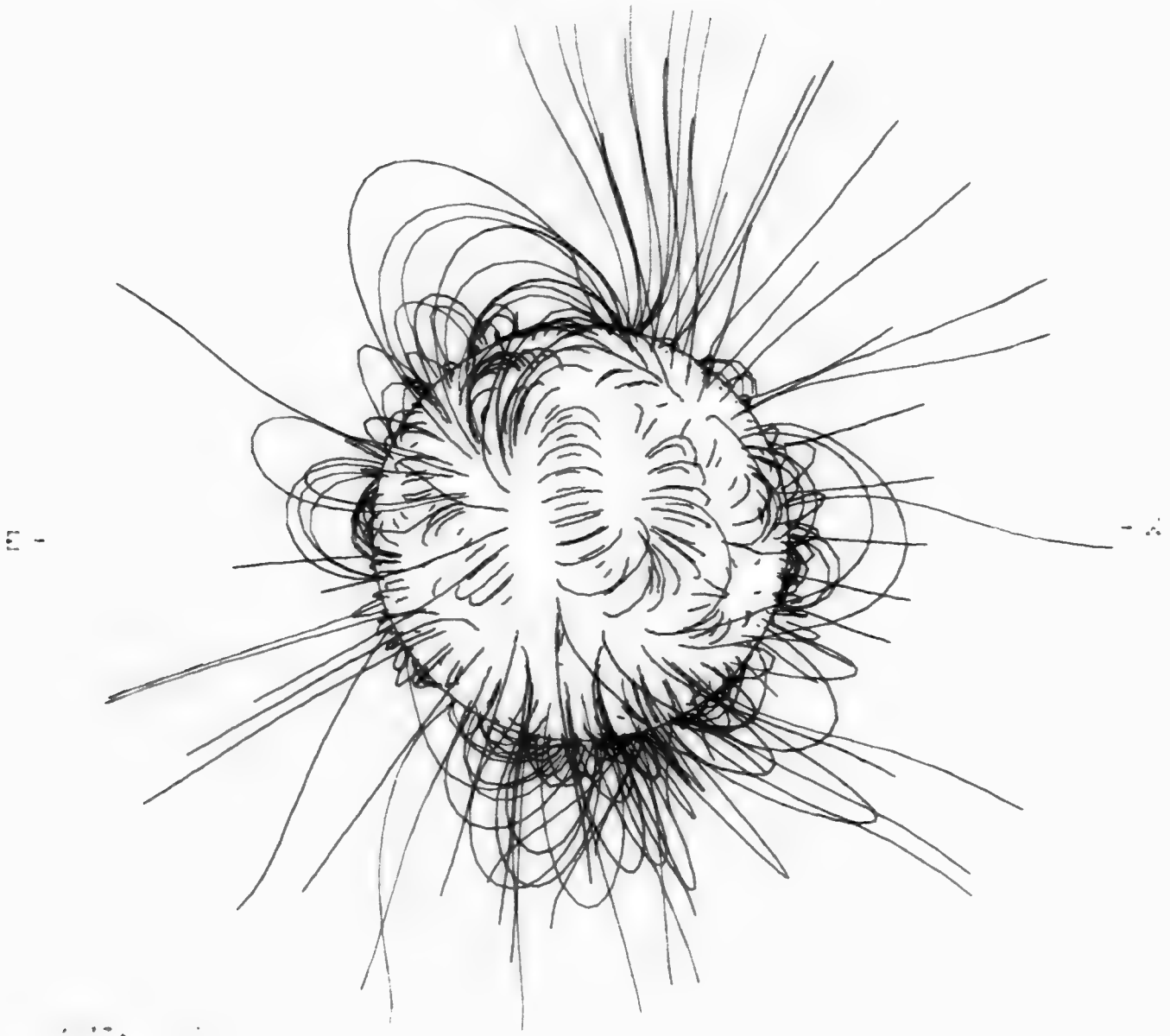
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

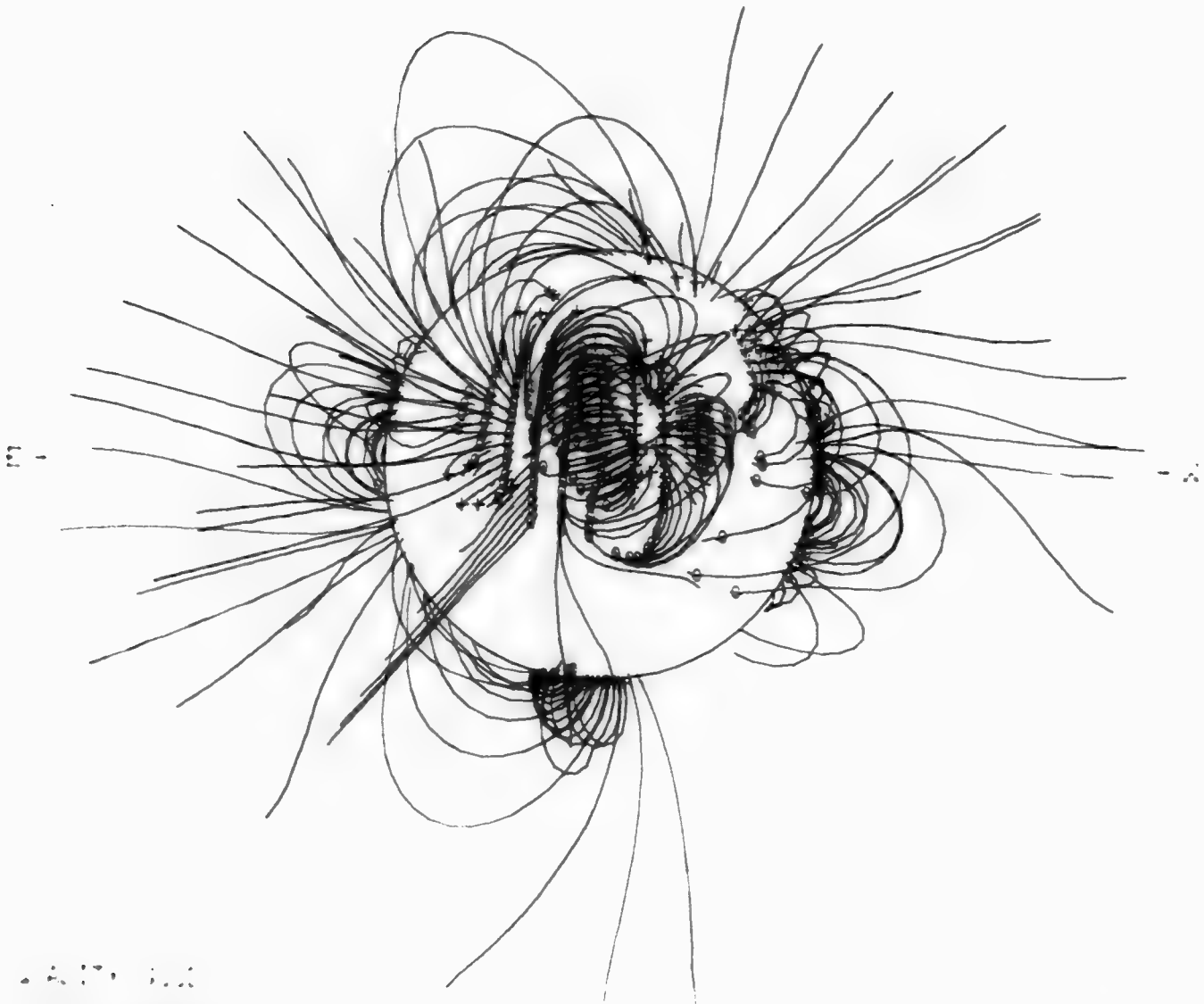


HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

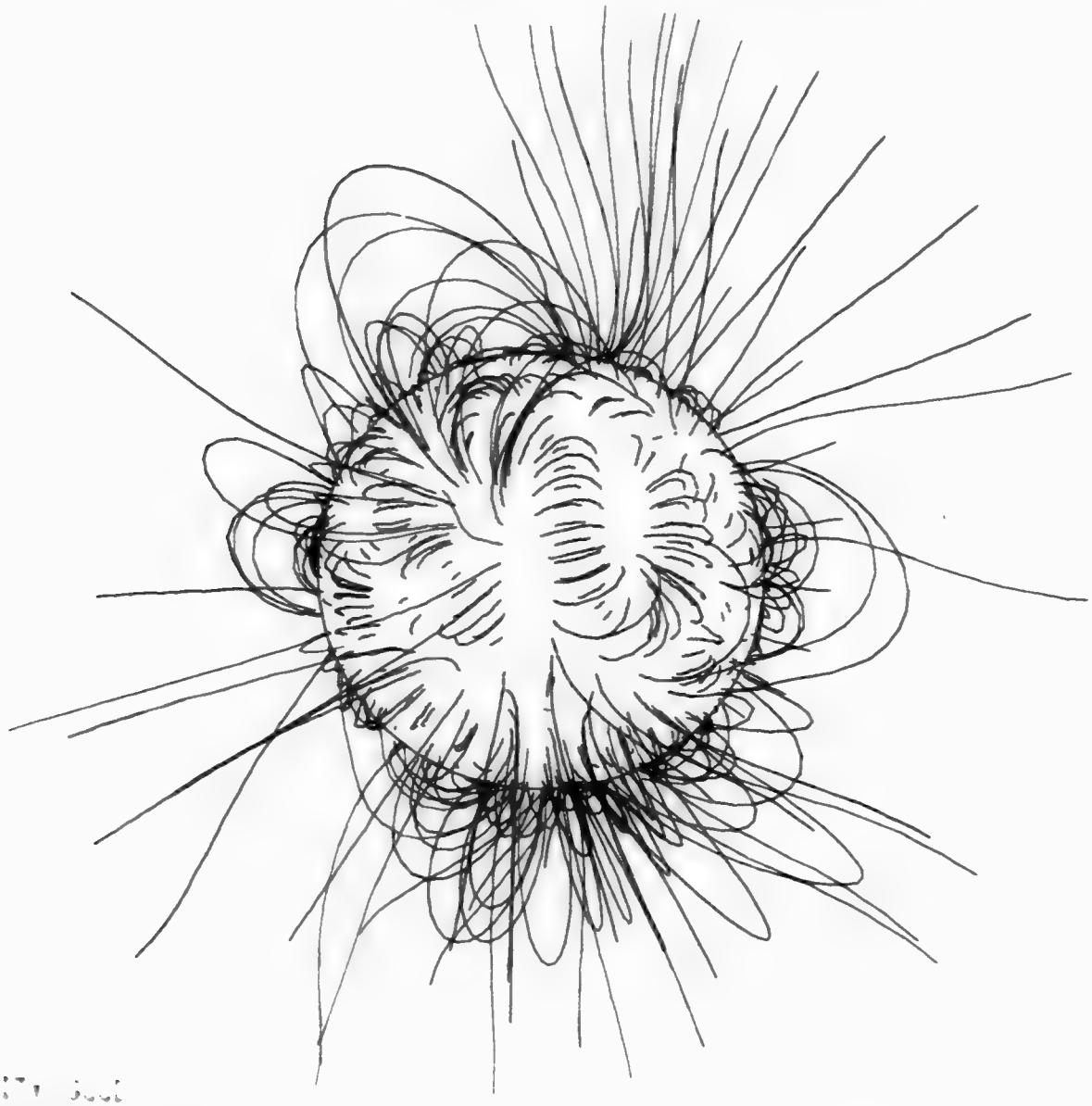
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



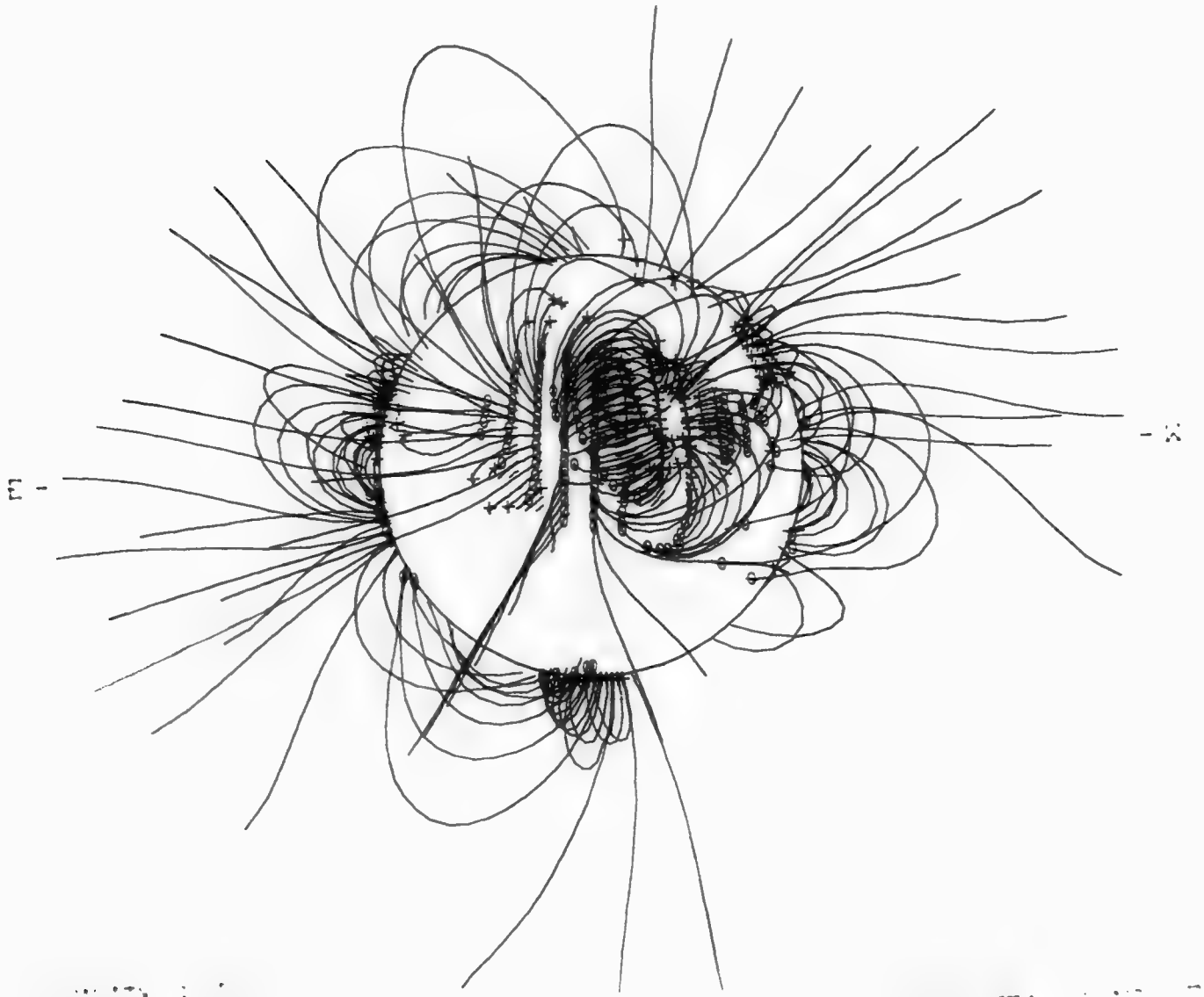
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



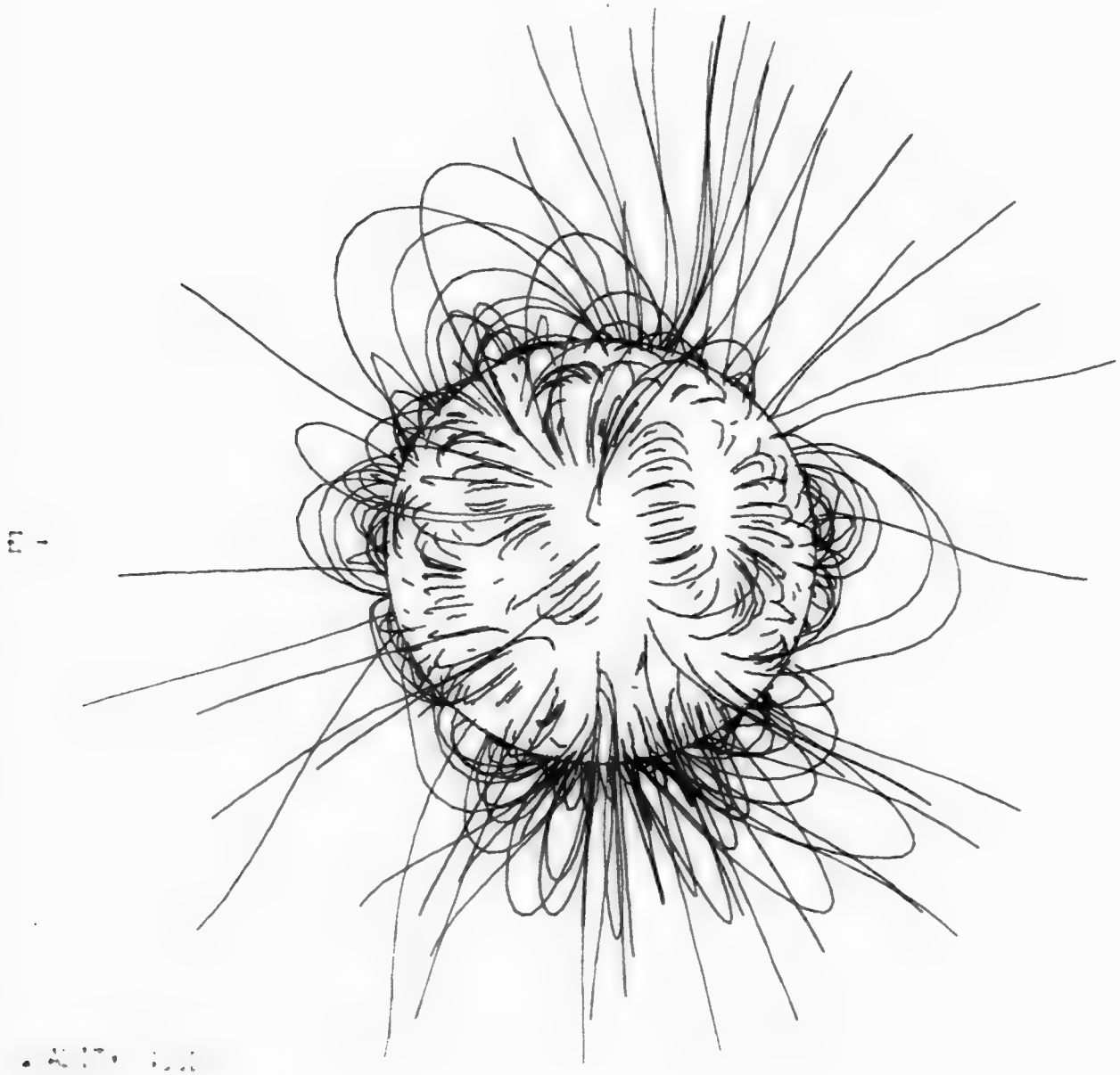
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



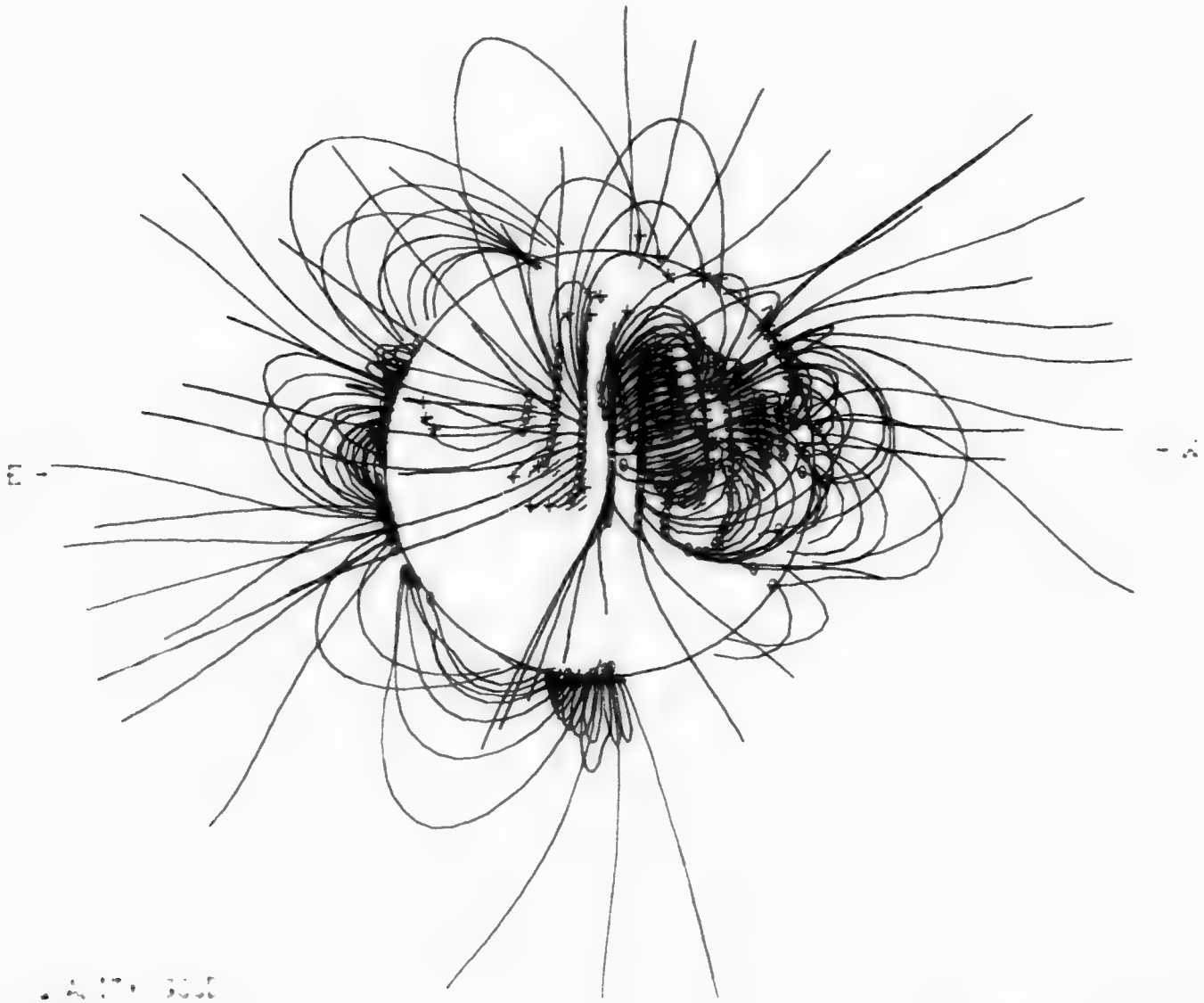
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



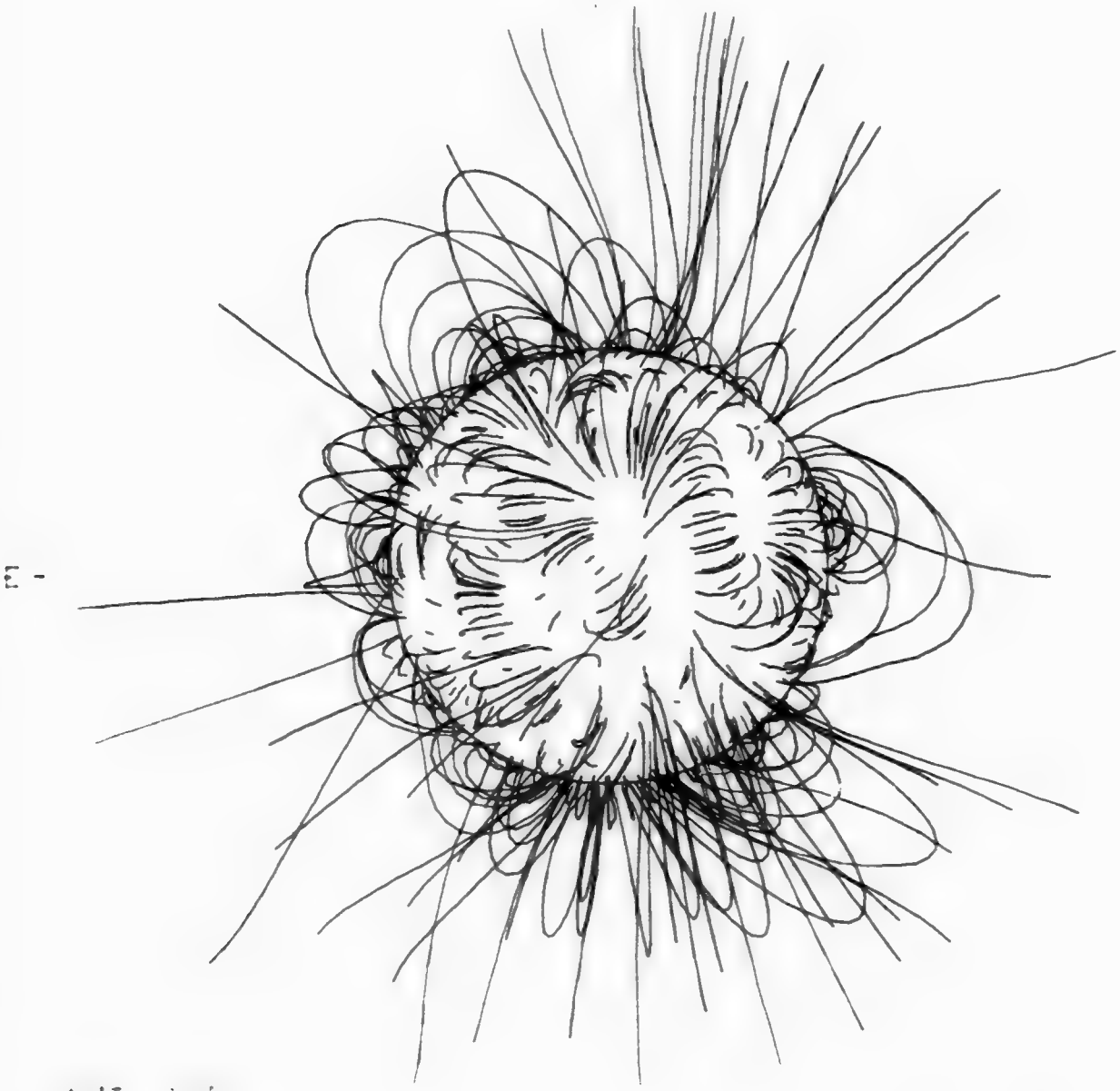
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



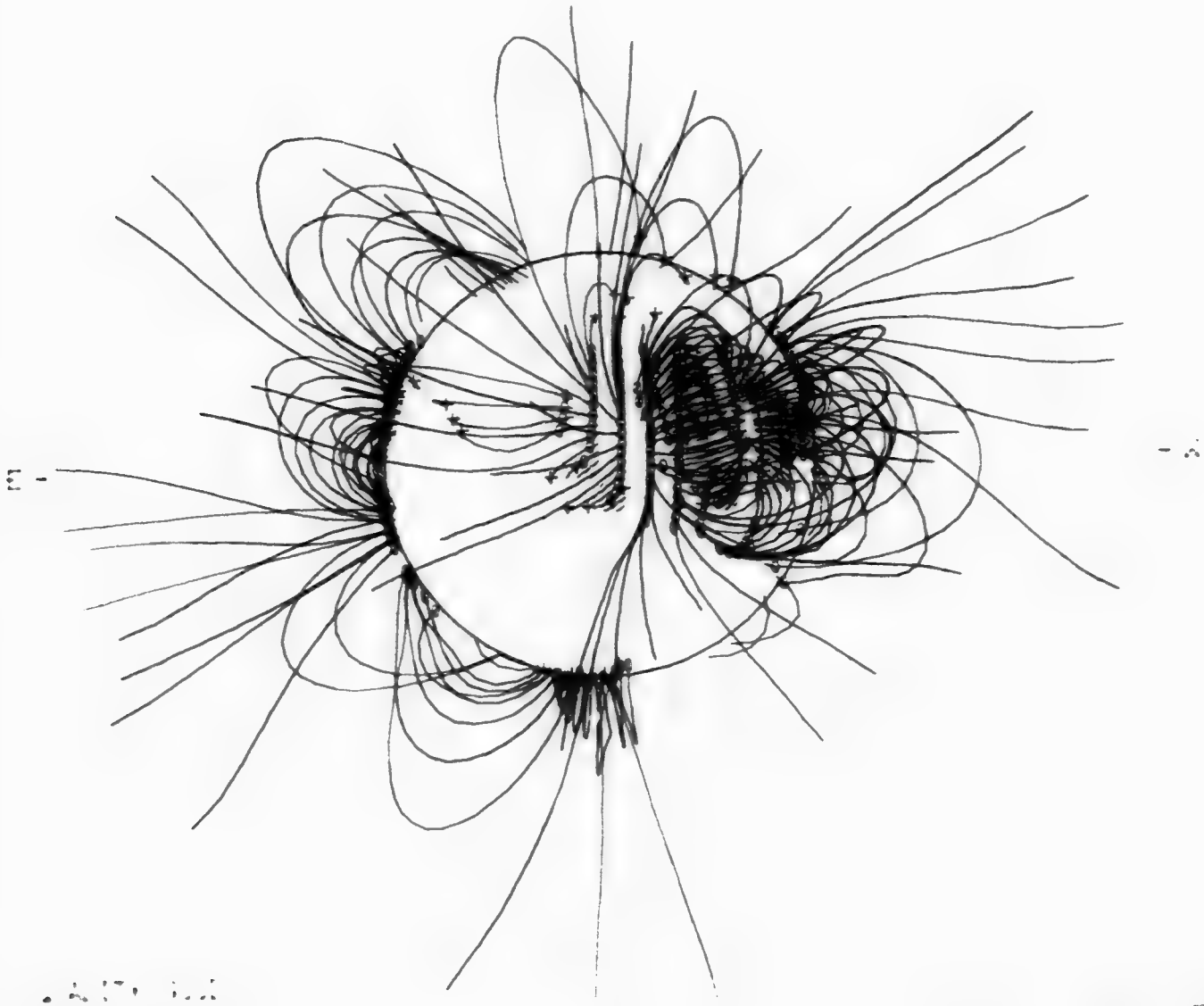
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



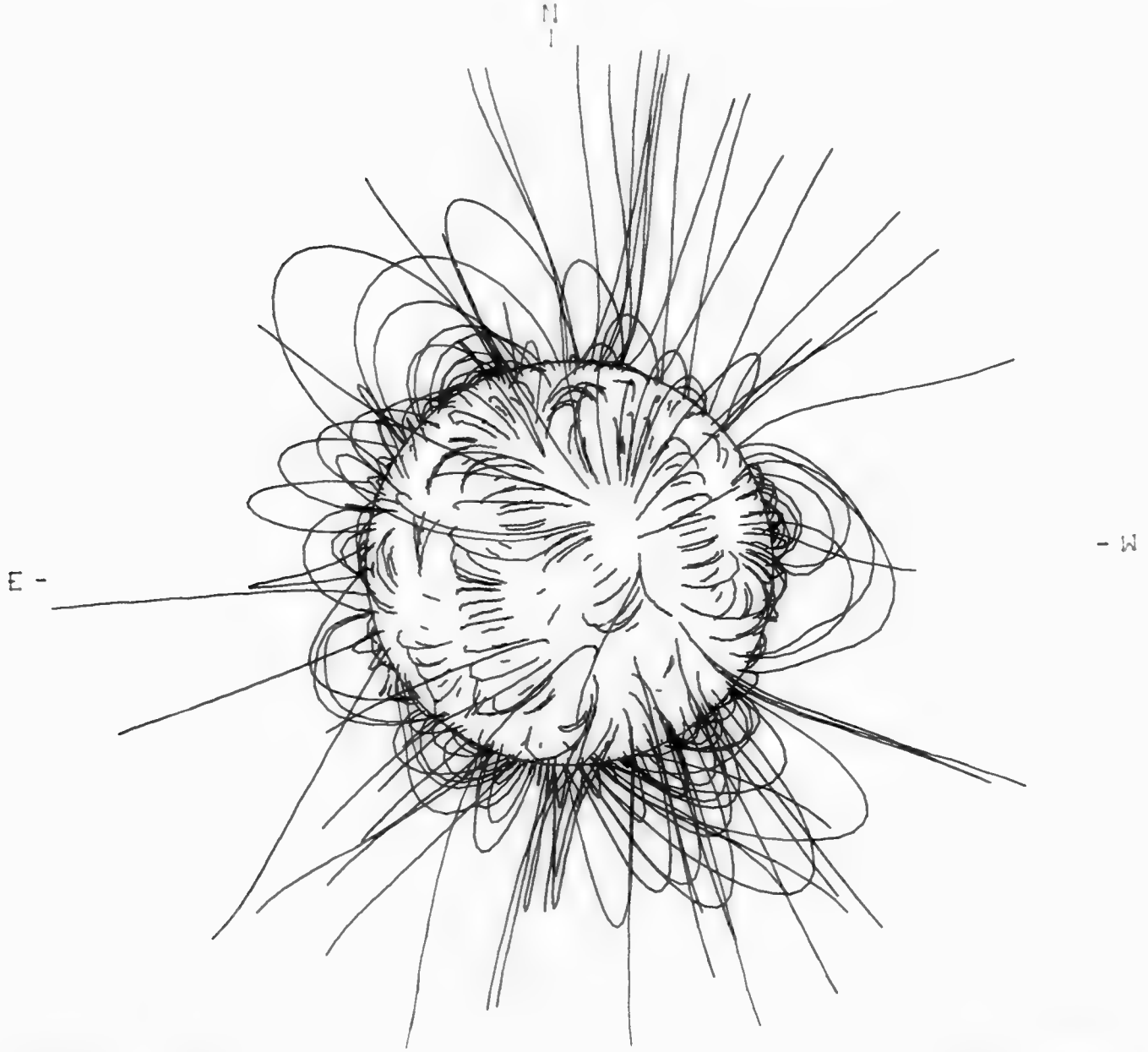
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



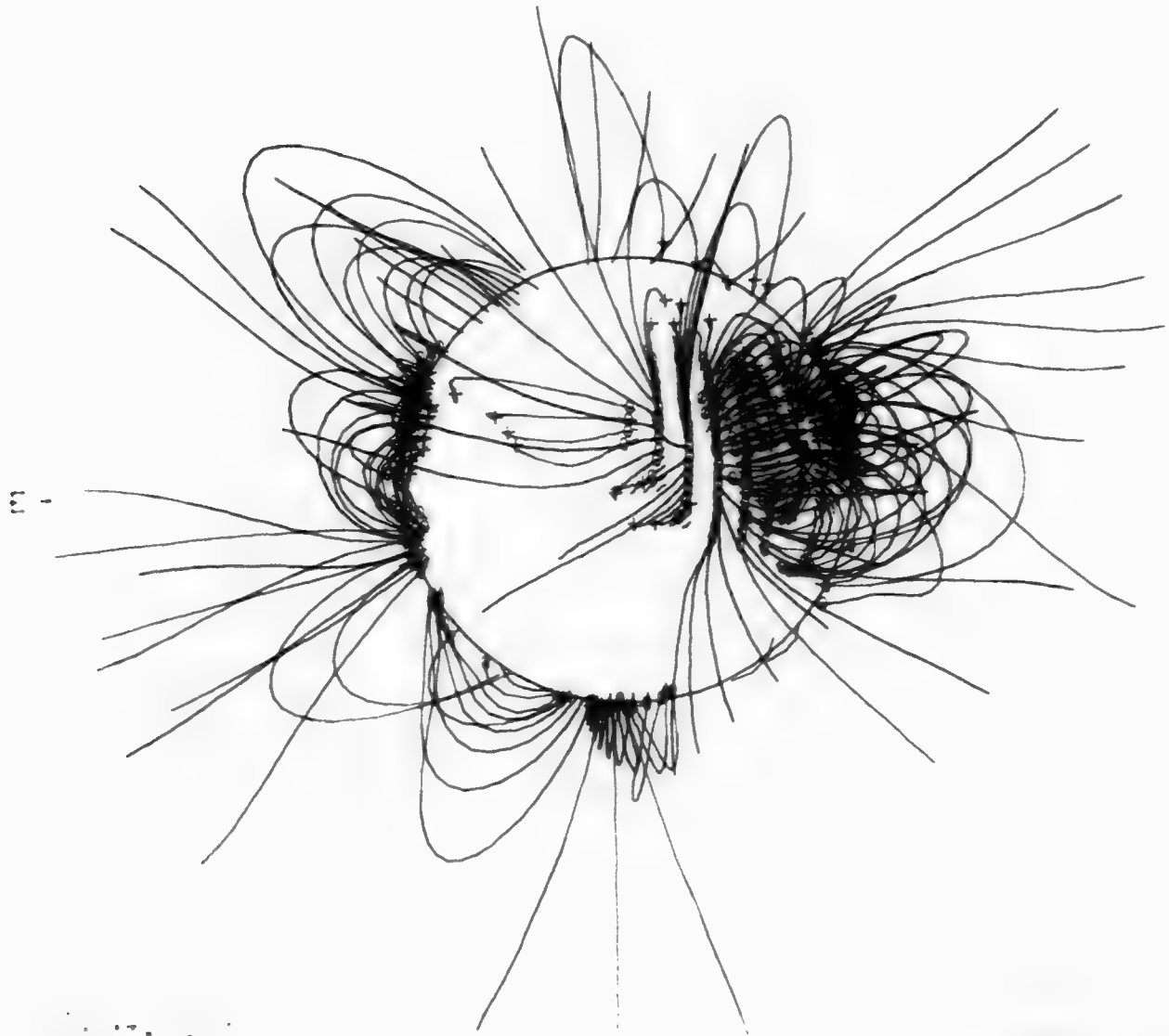
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



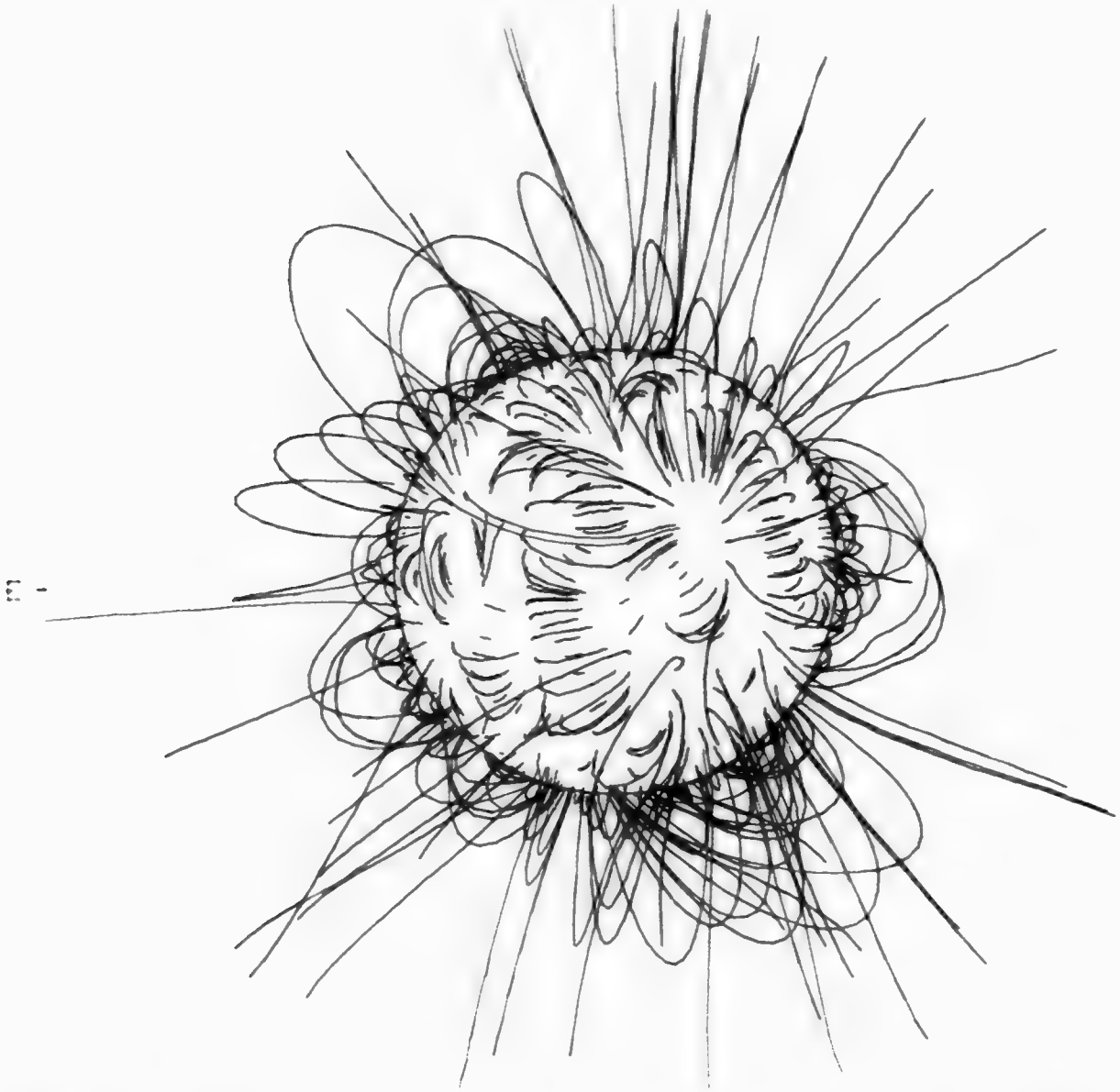
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



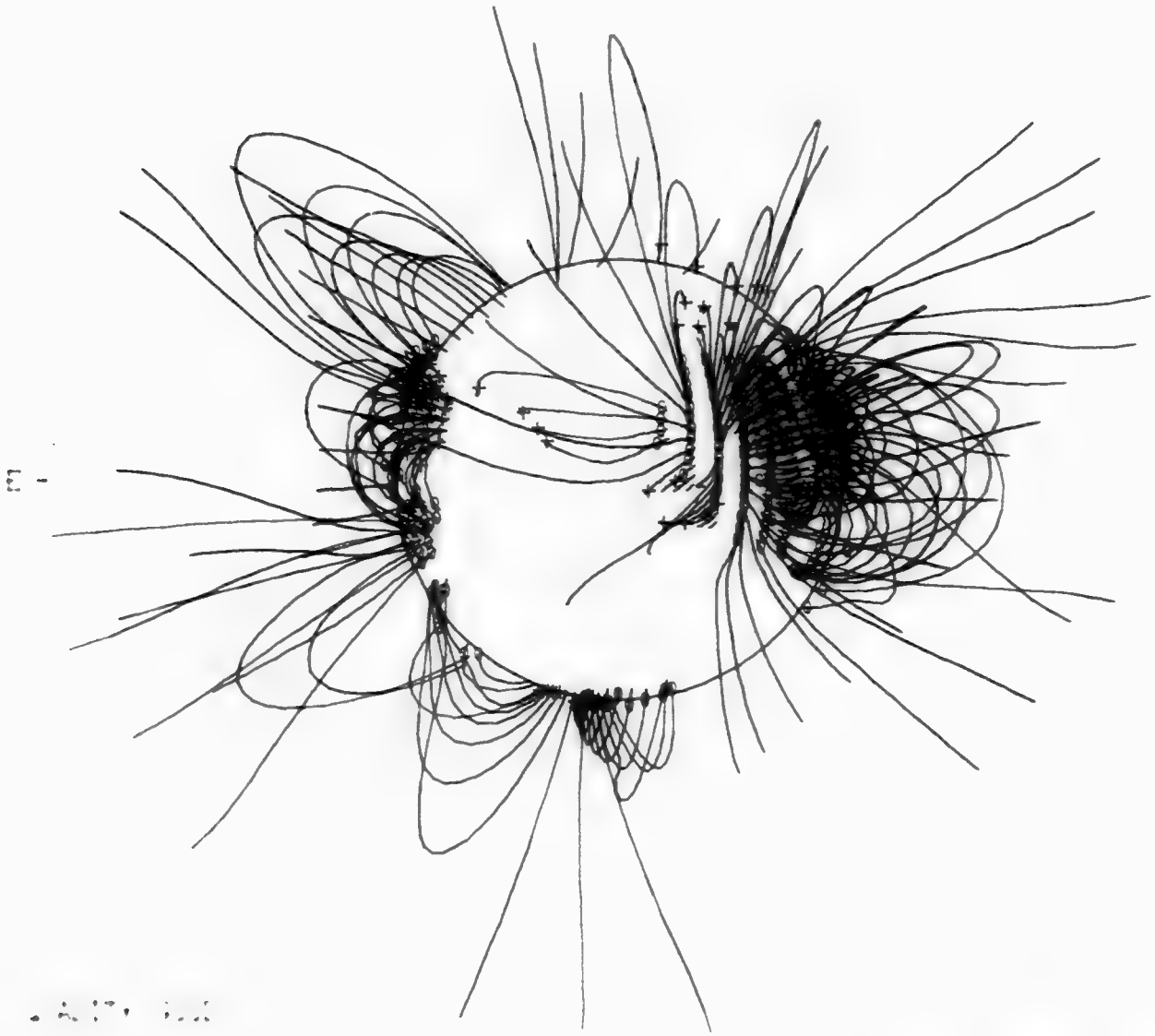
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



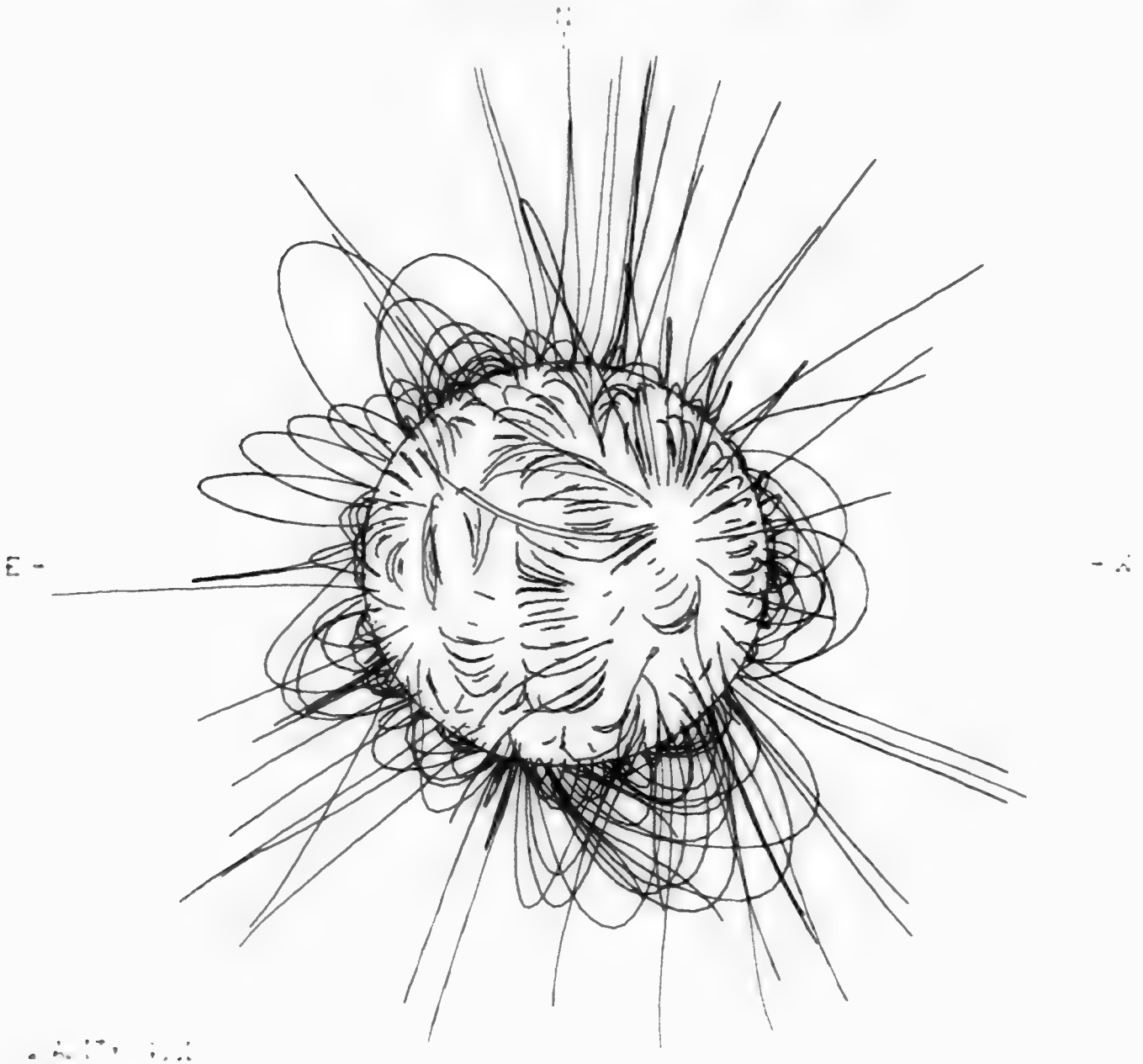
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



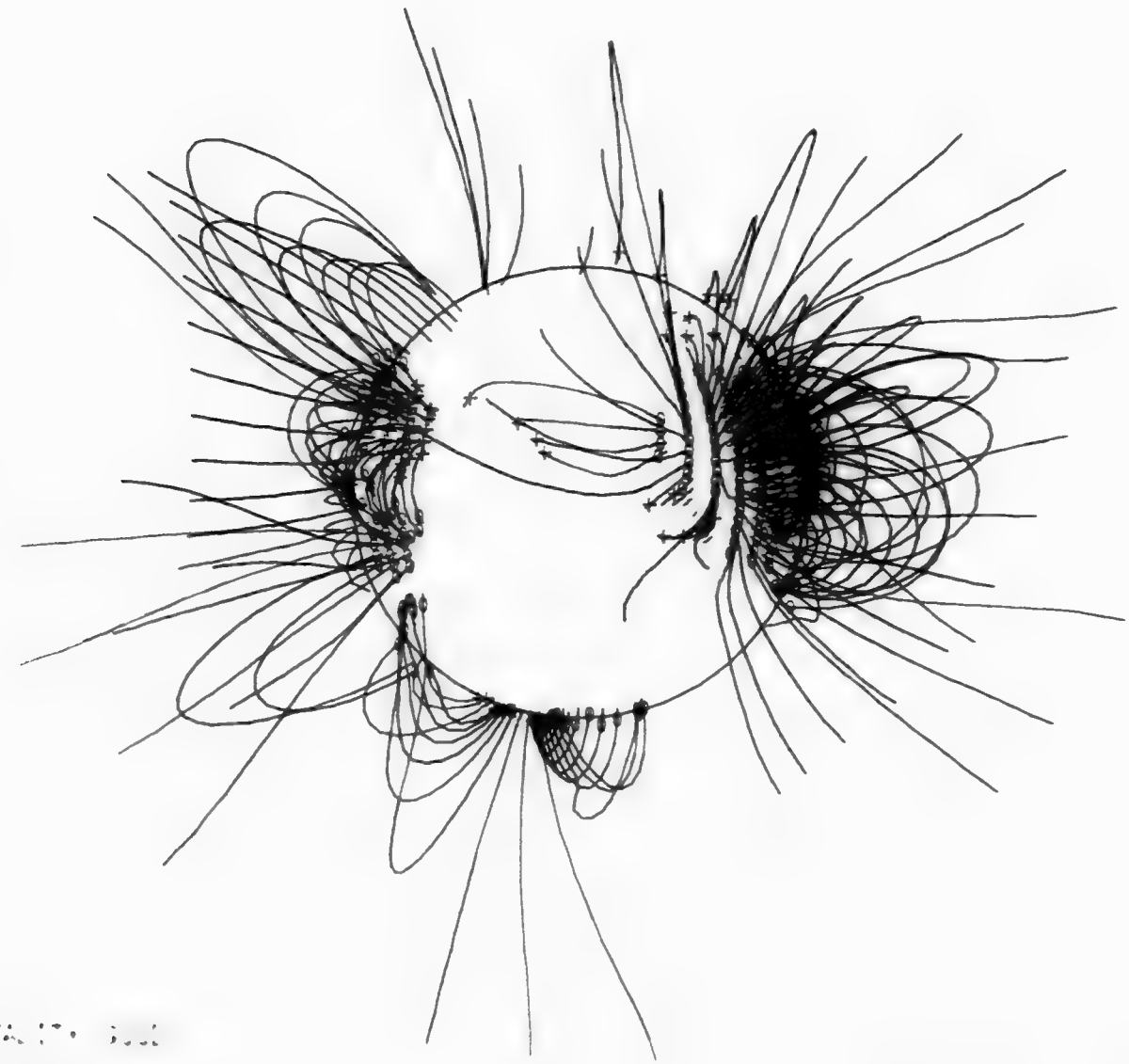
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



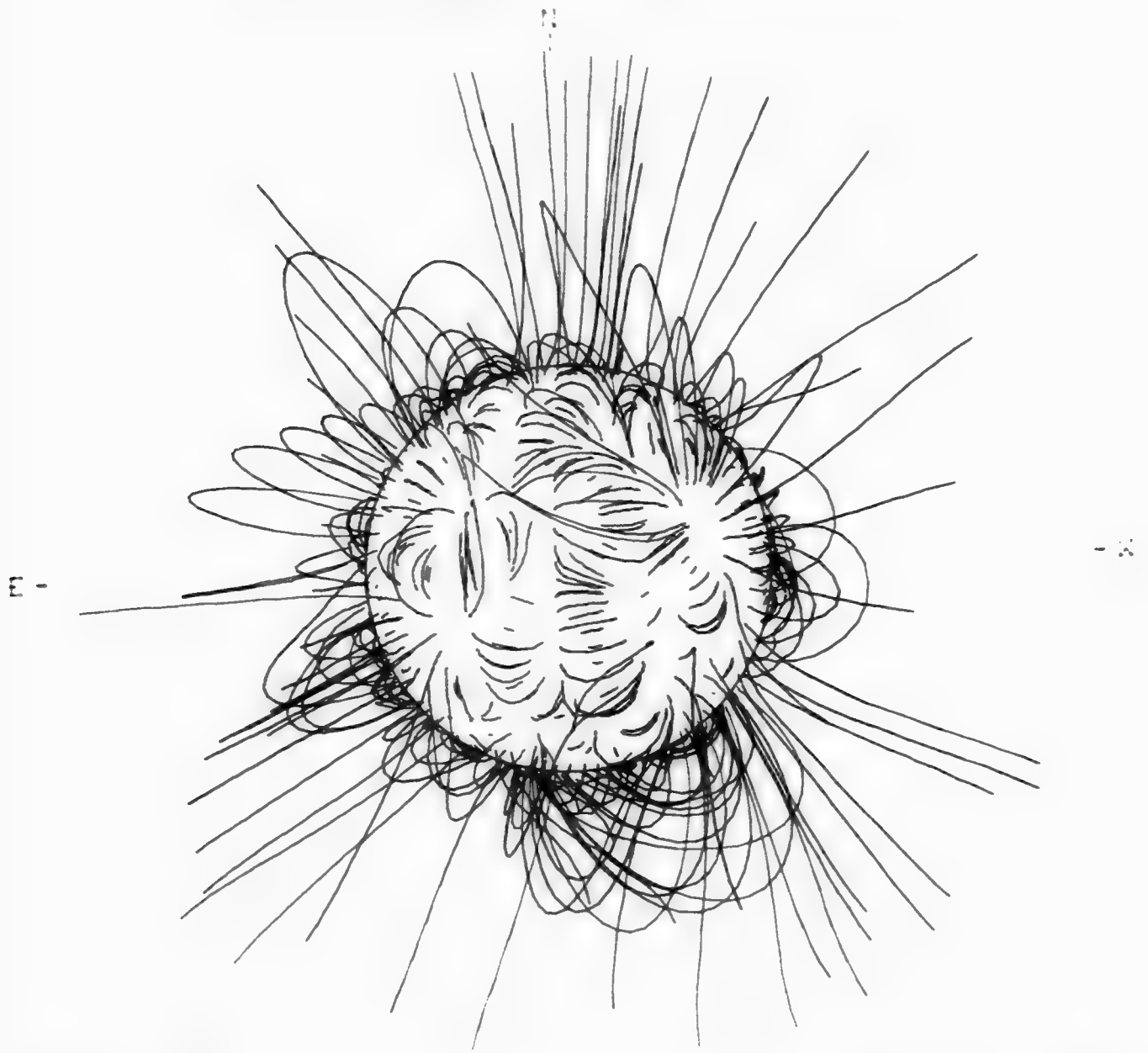
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



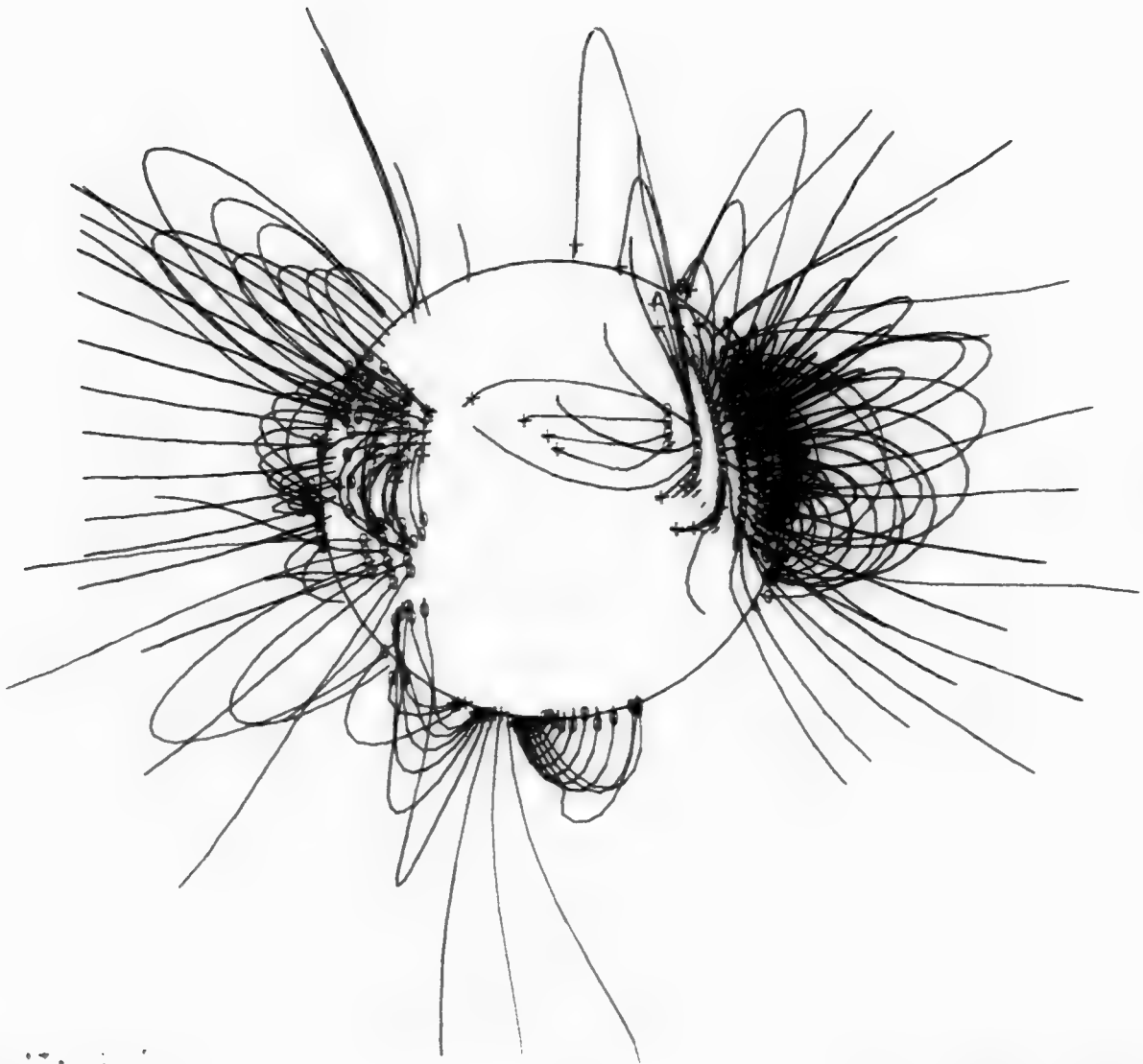
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



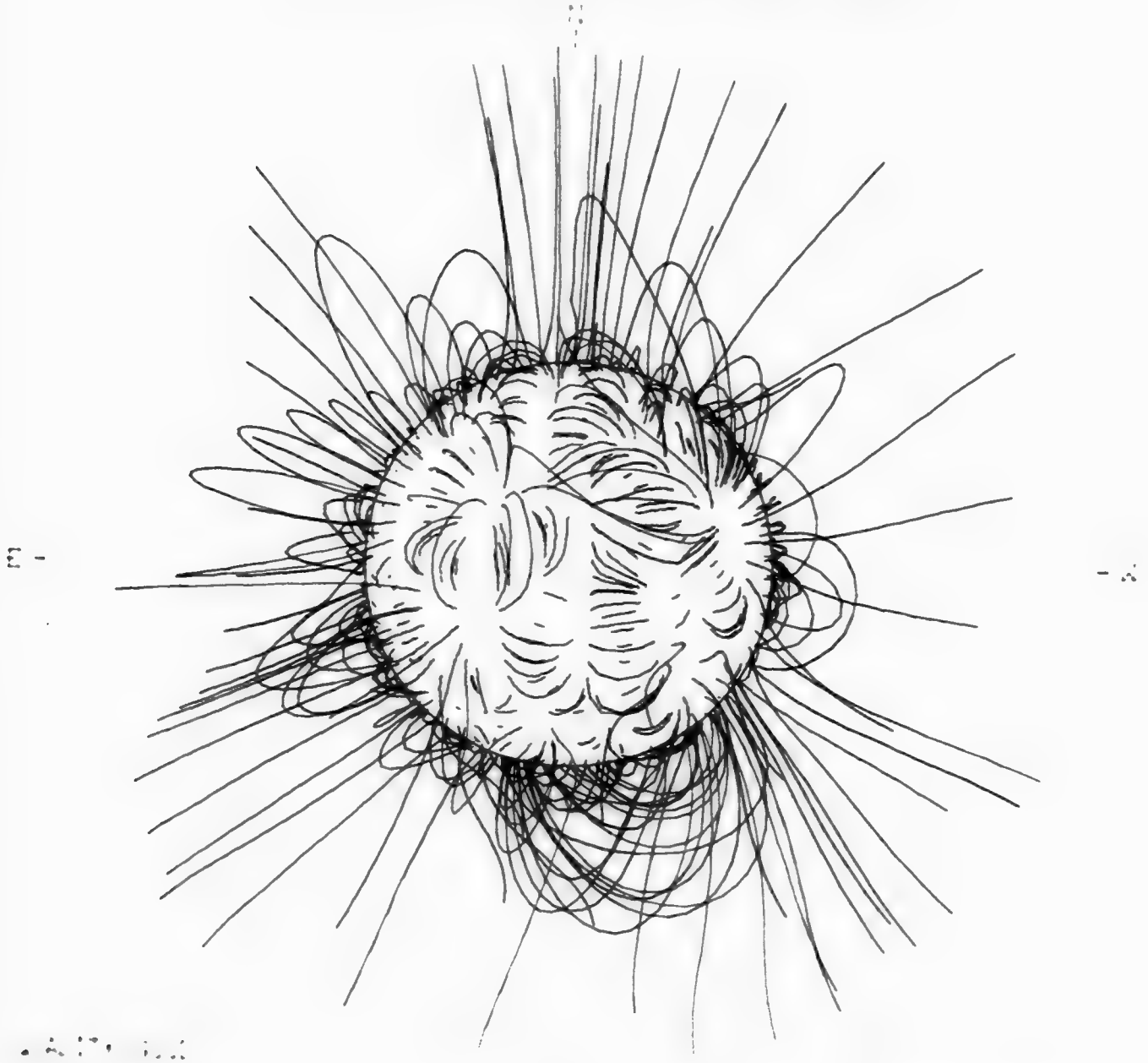
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



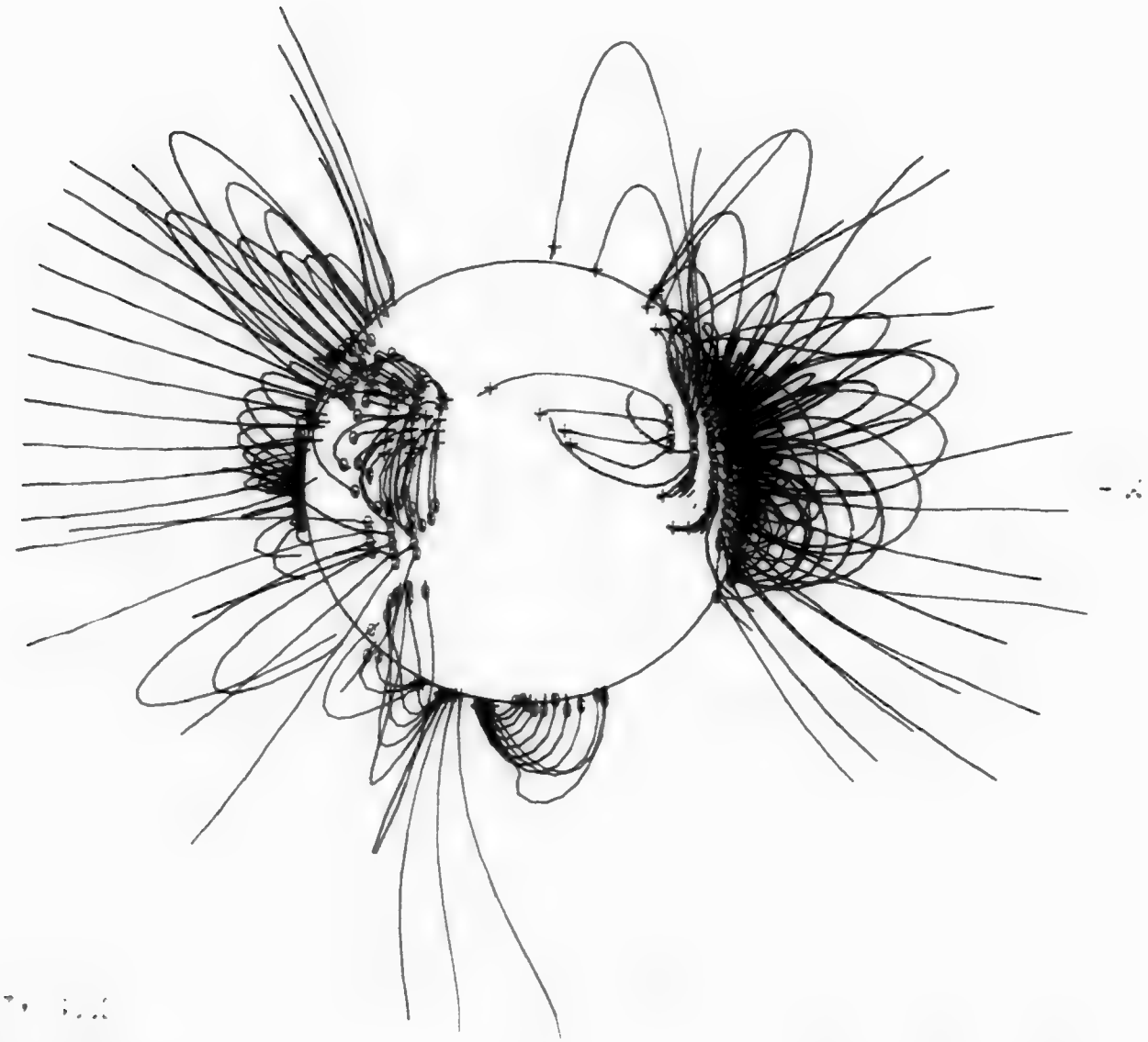
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



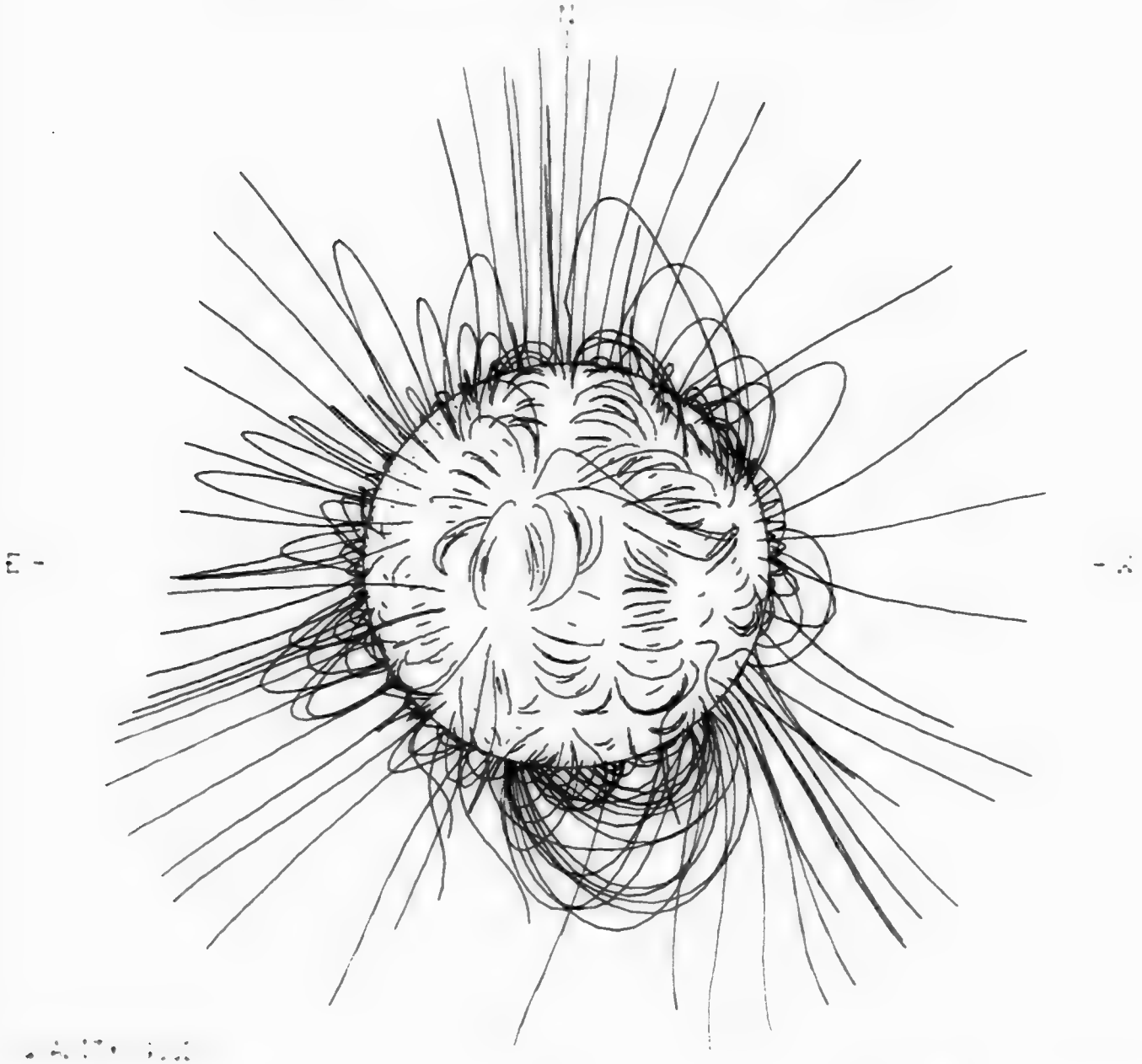
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



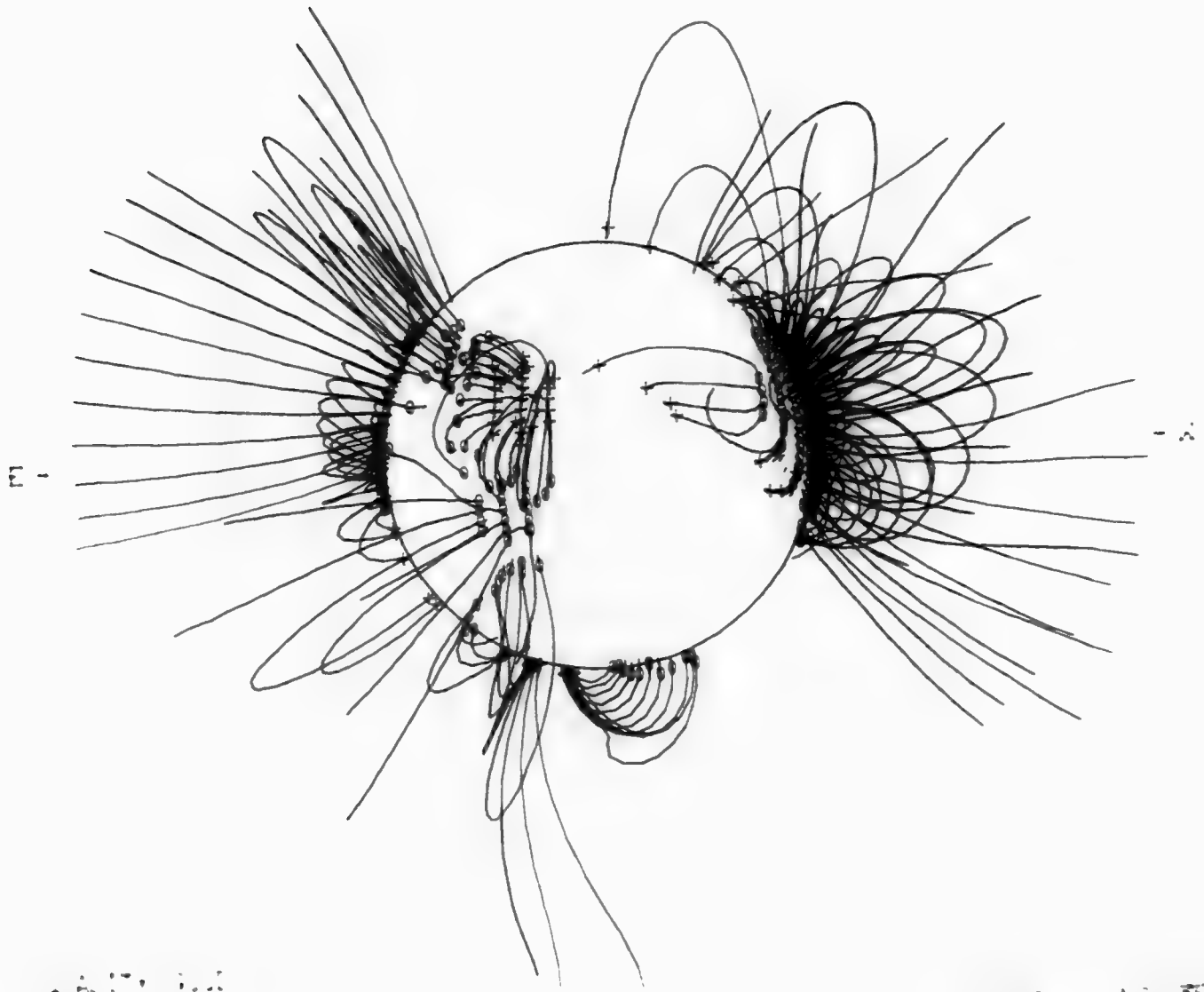
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



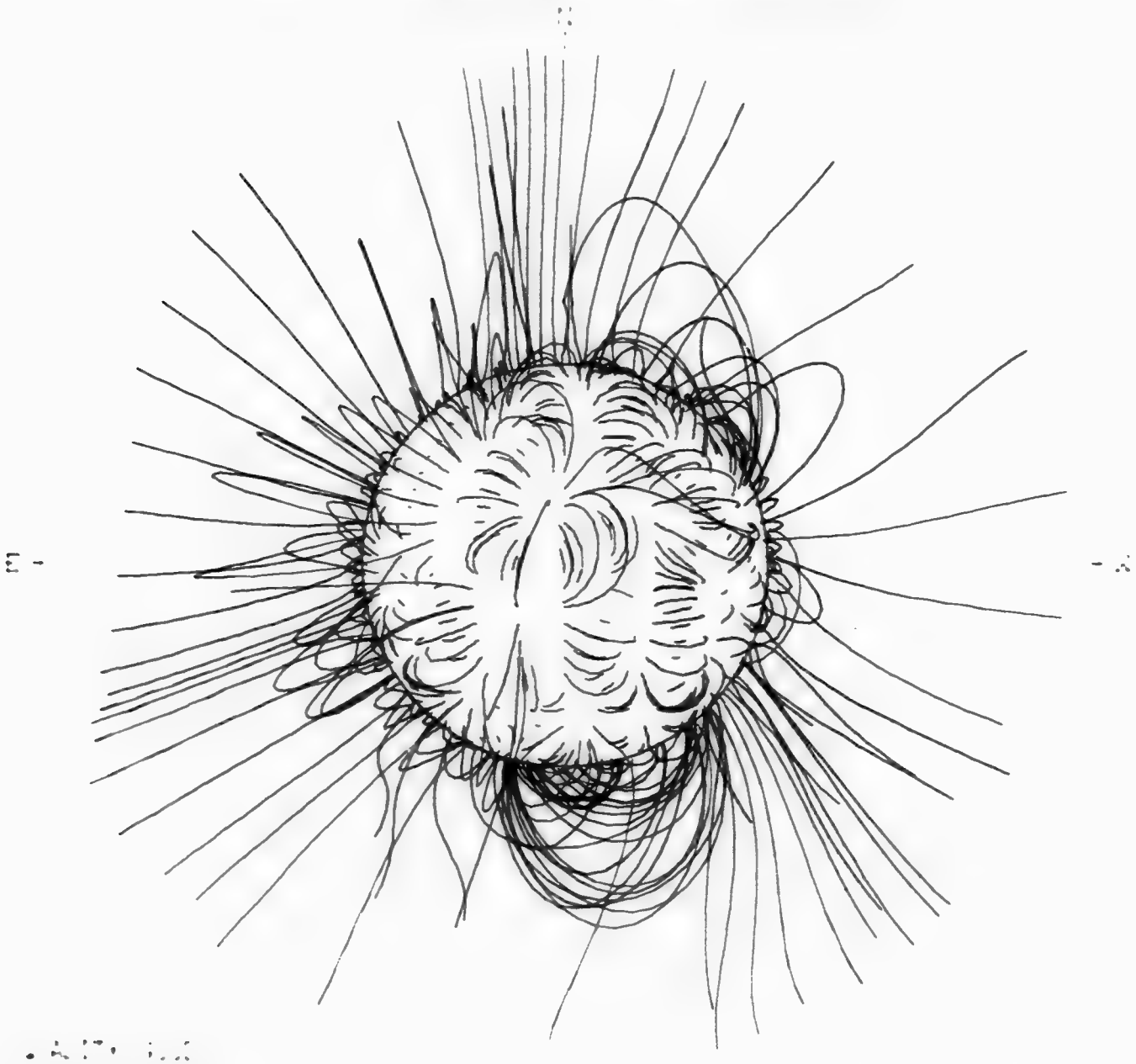
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



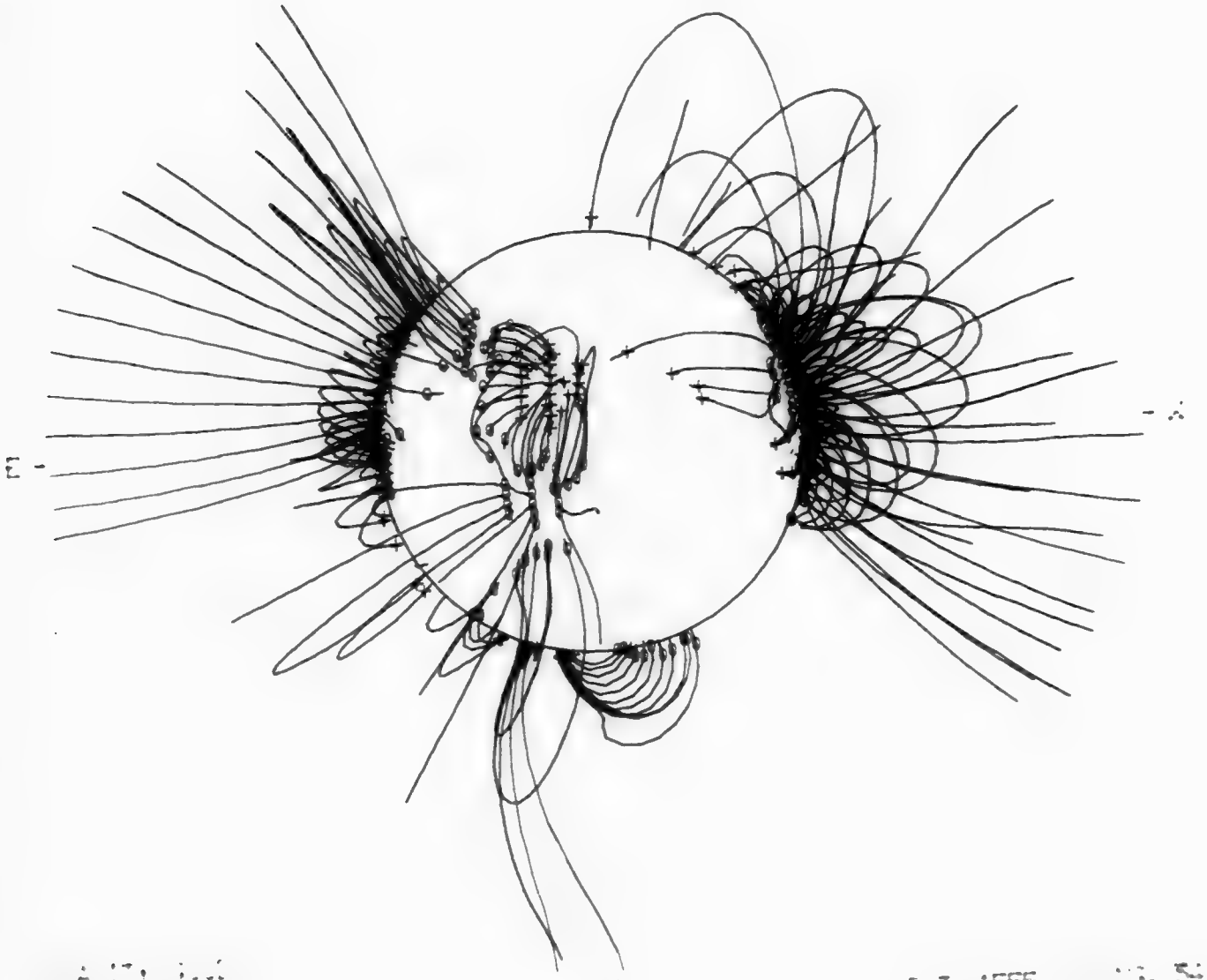
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



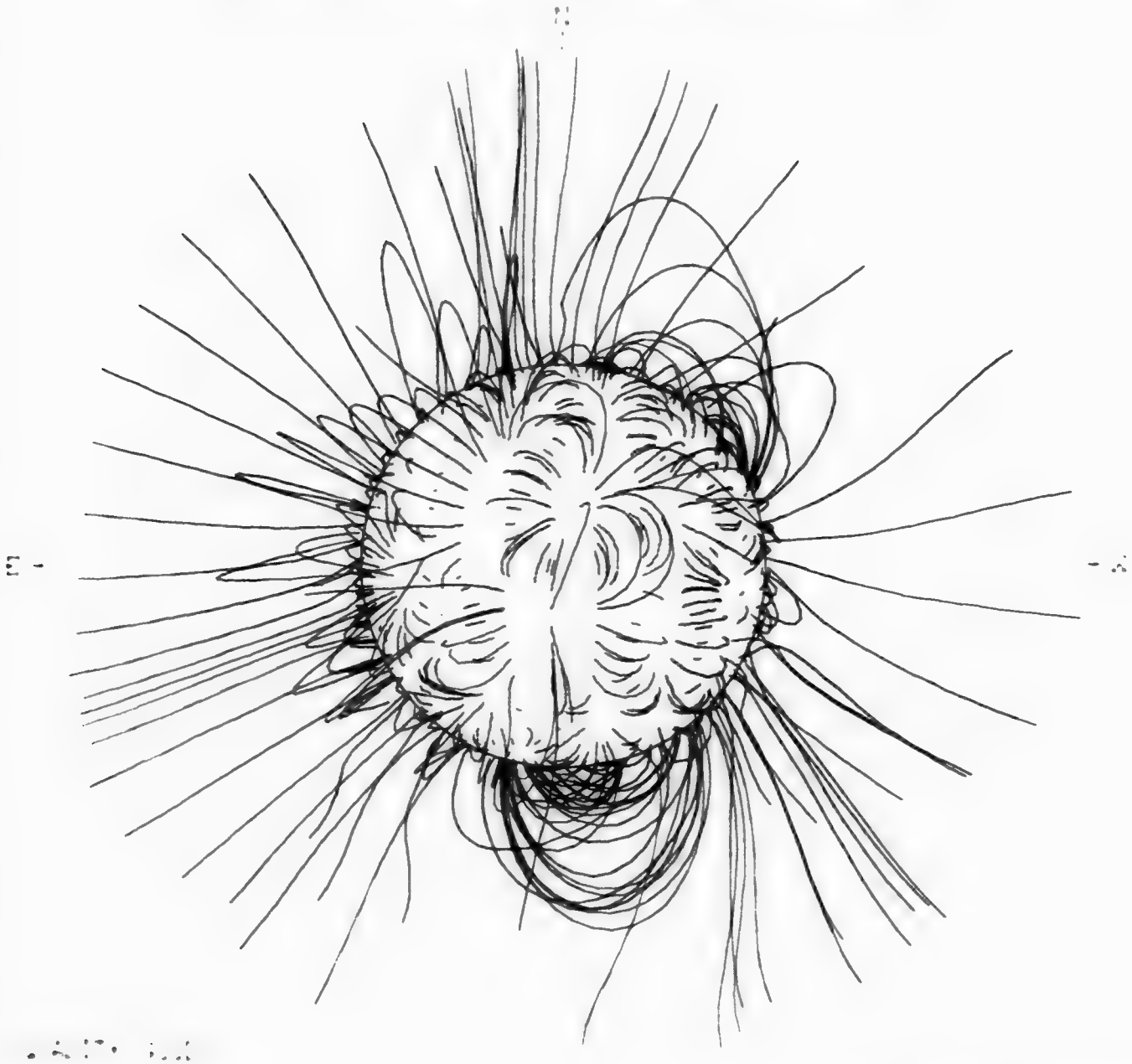
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



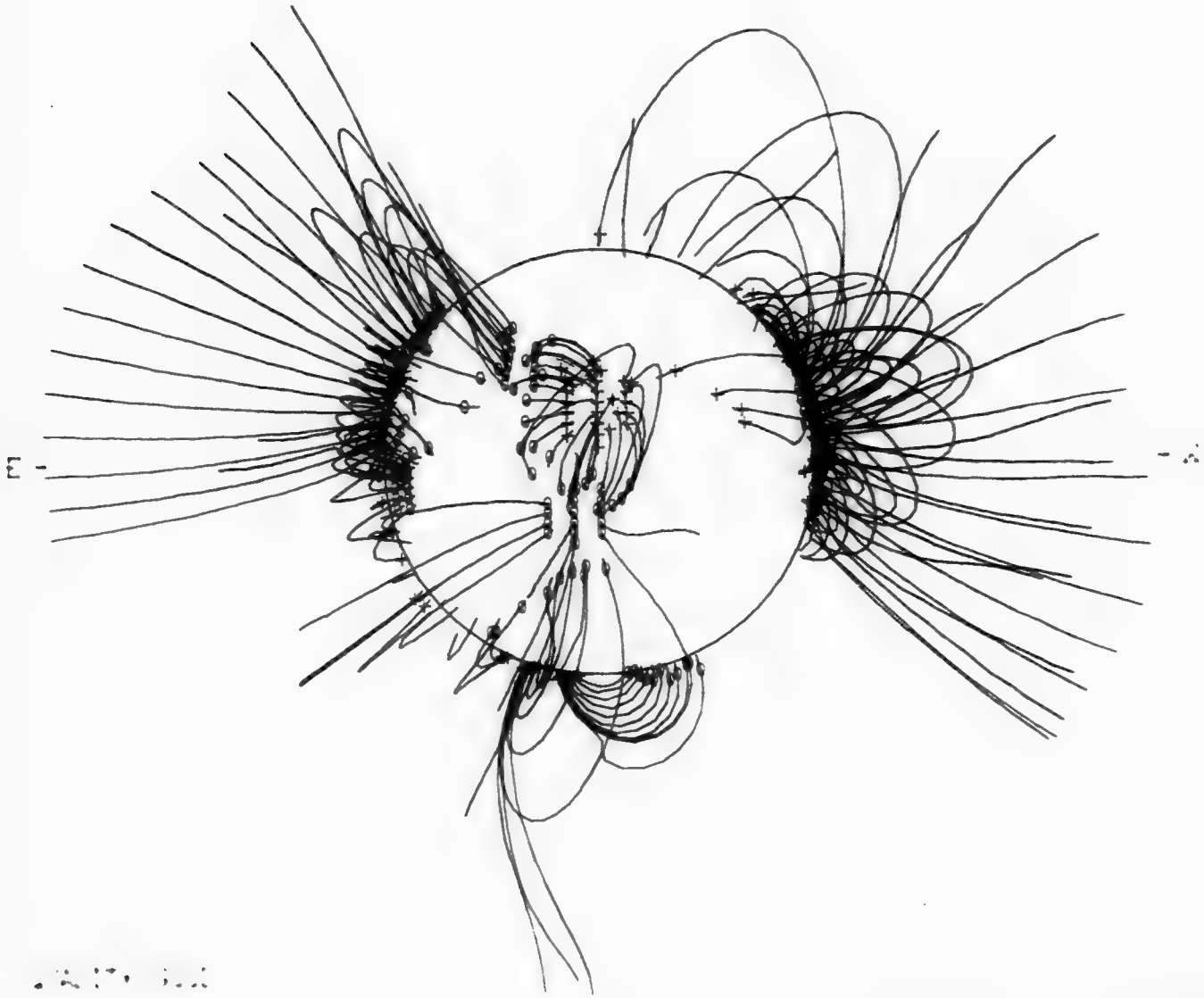
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



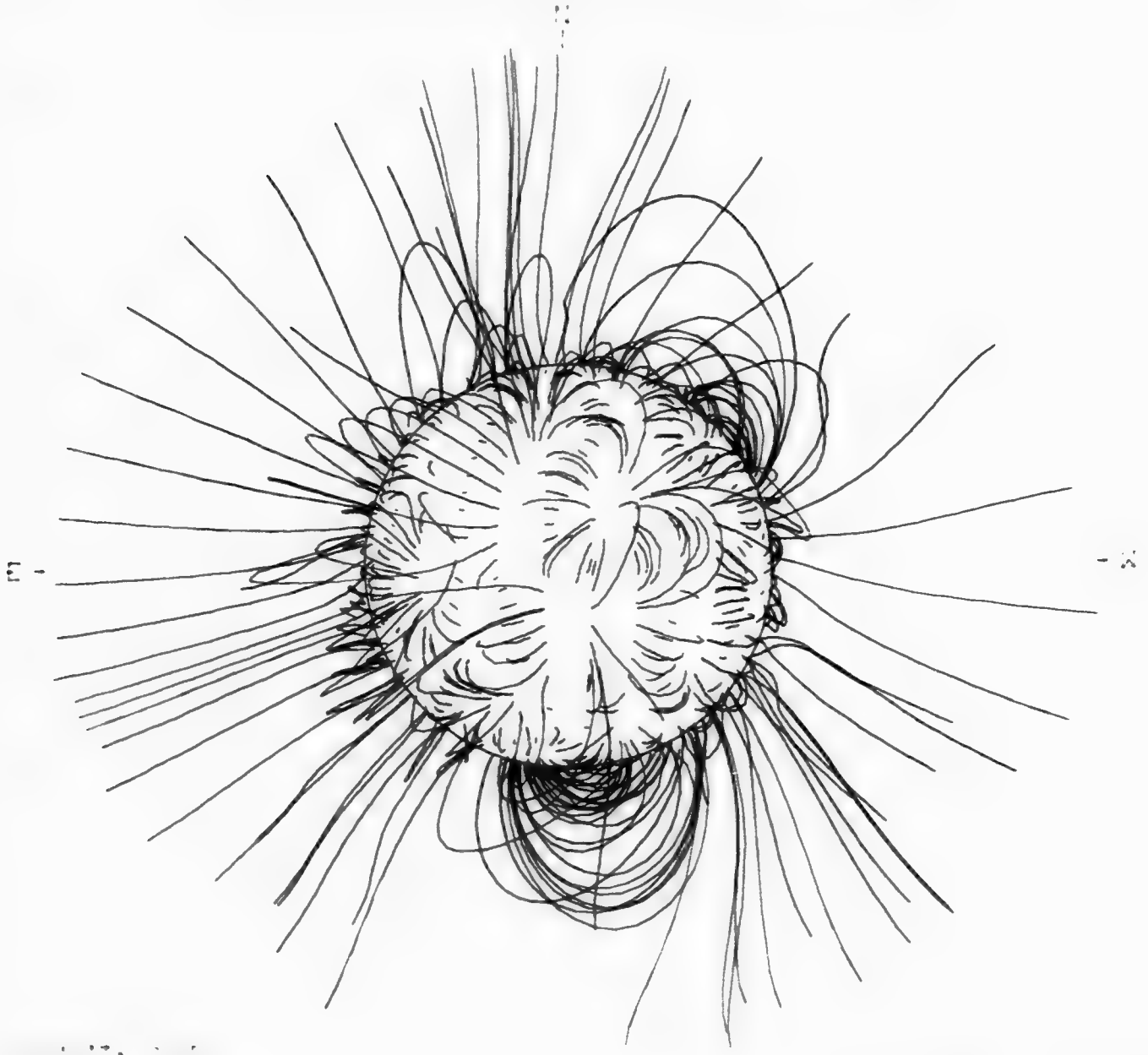
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



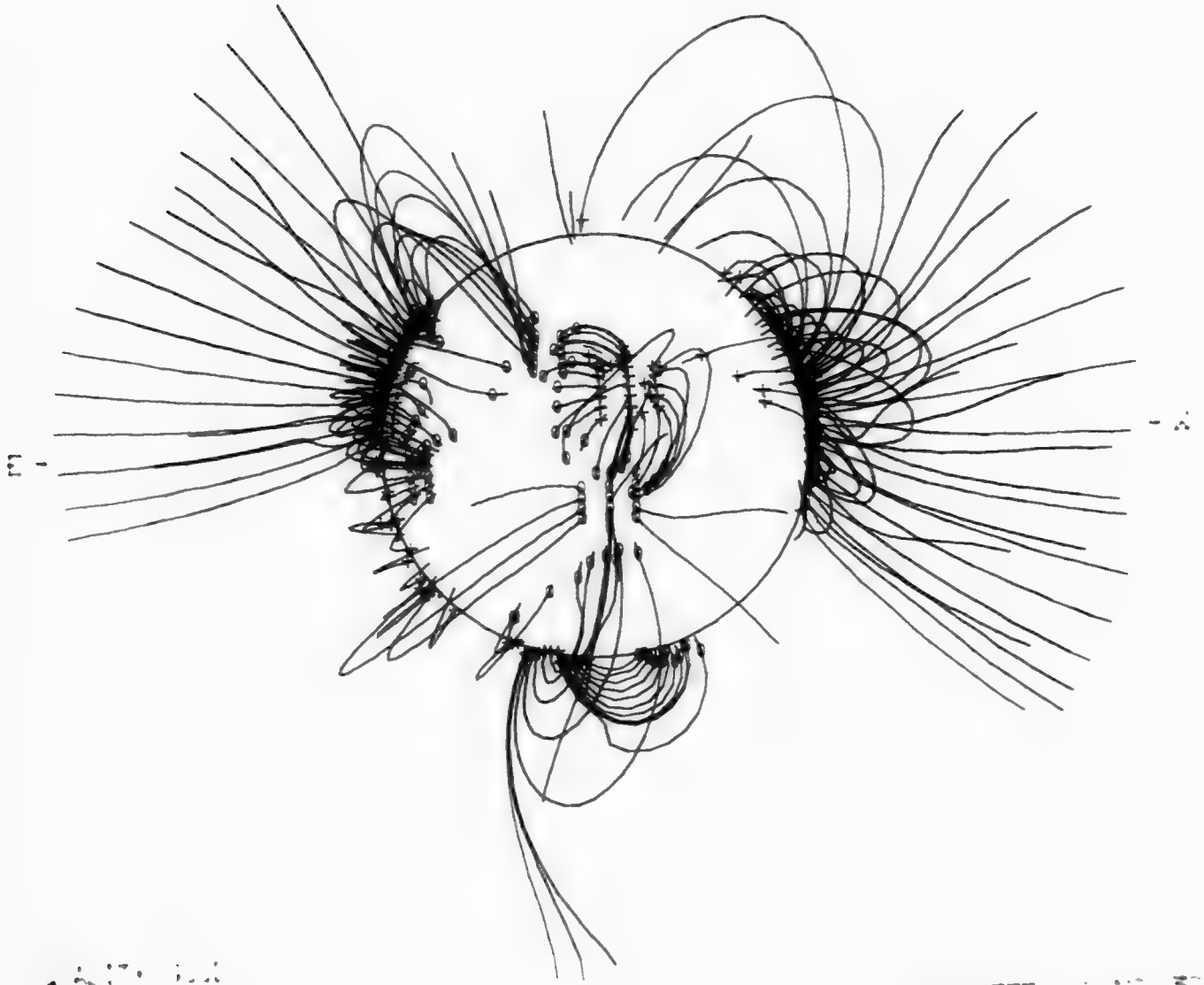
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



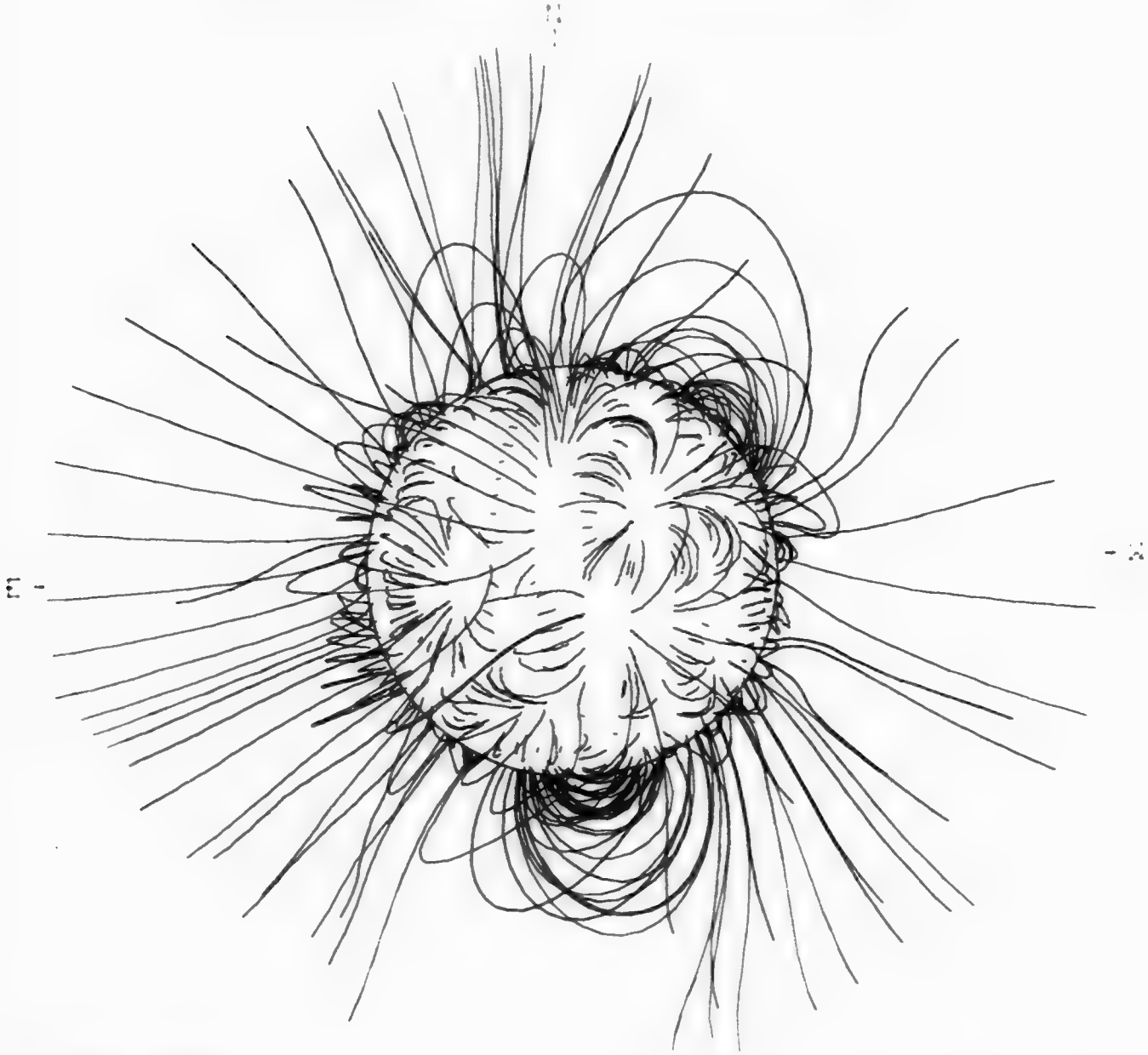
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



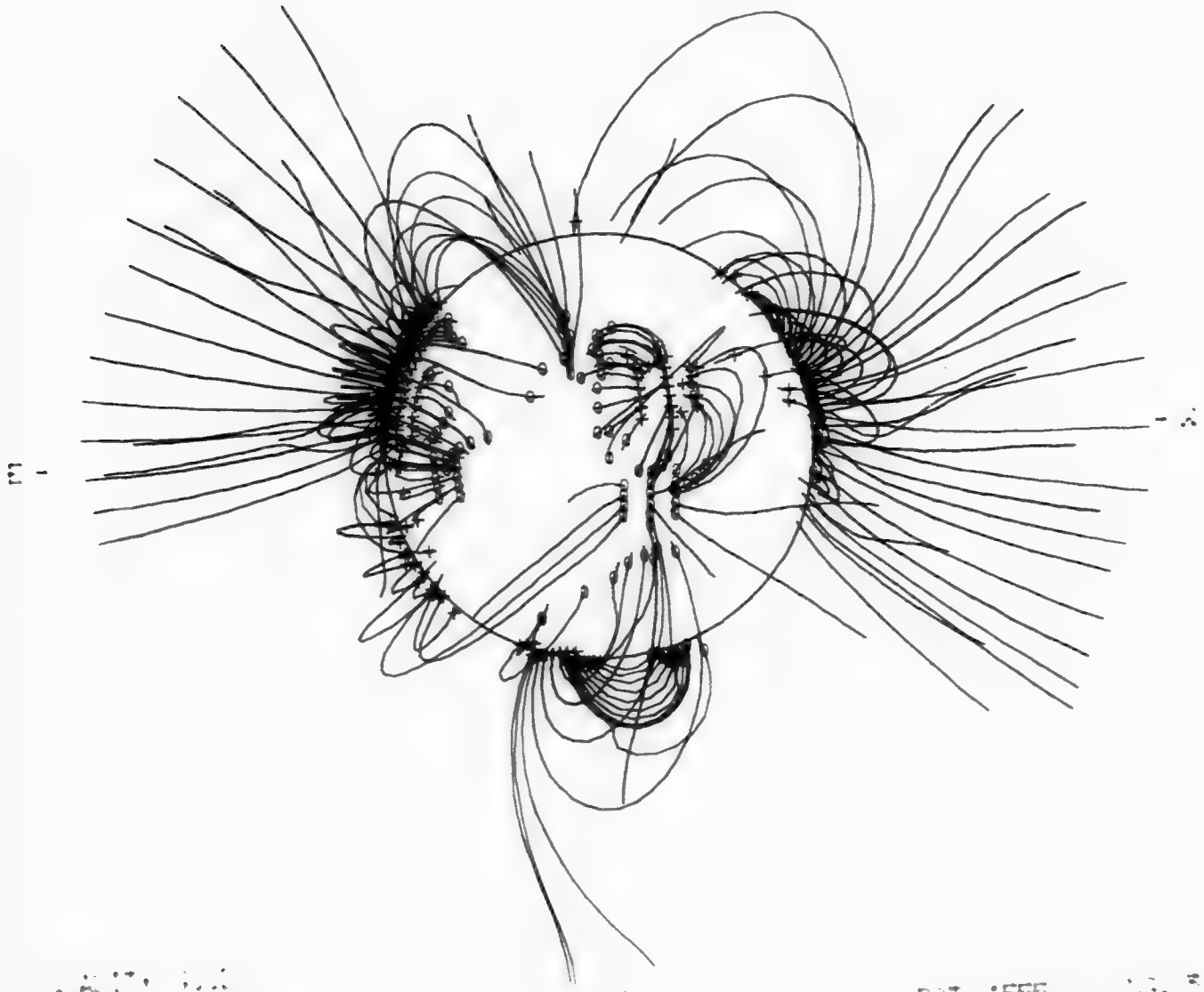
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



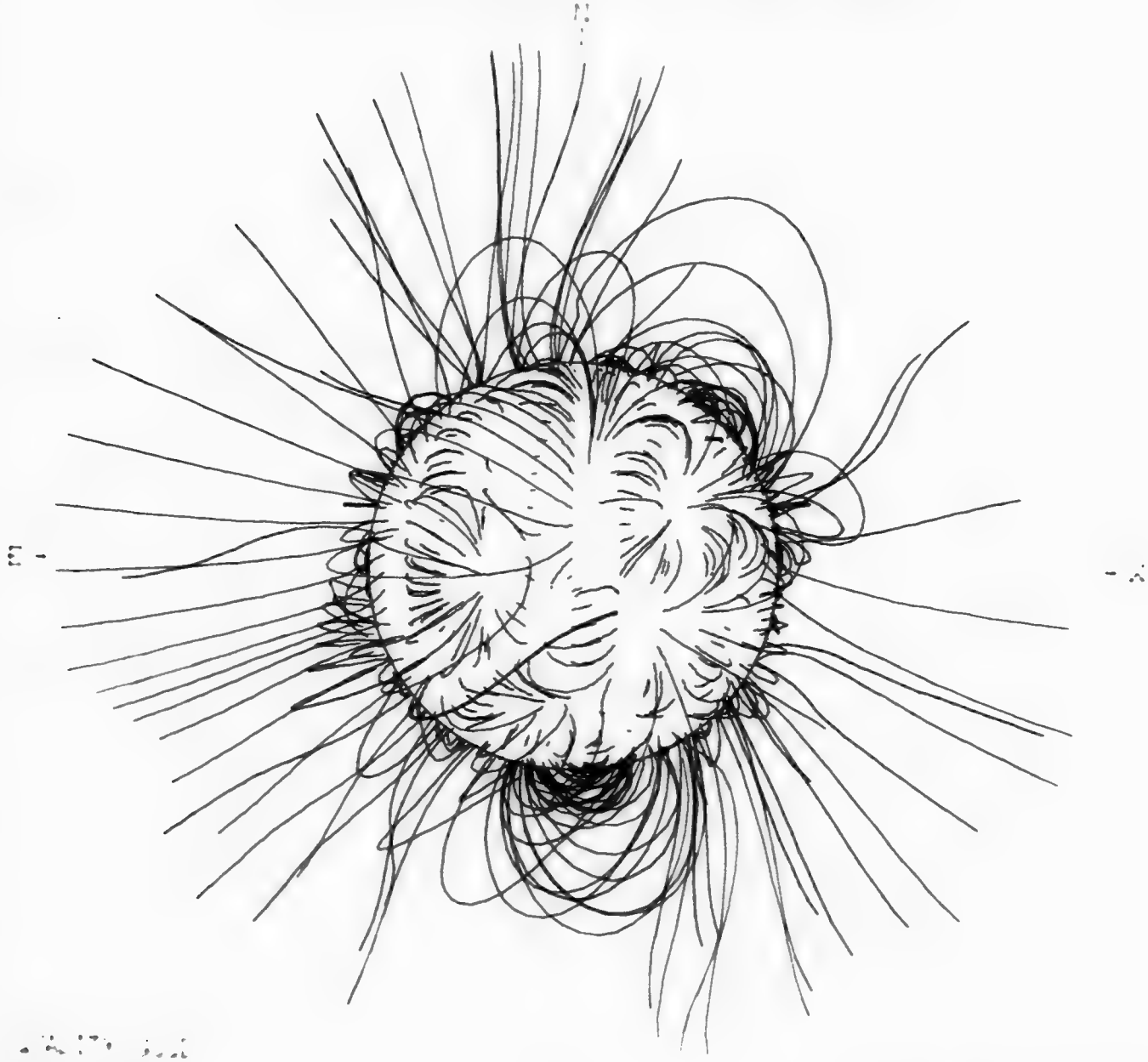
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

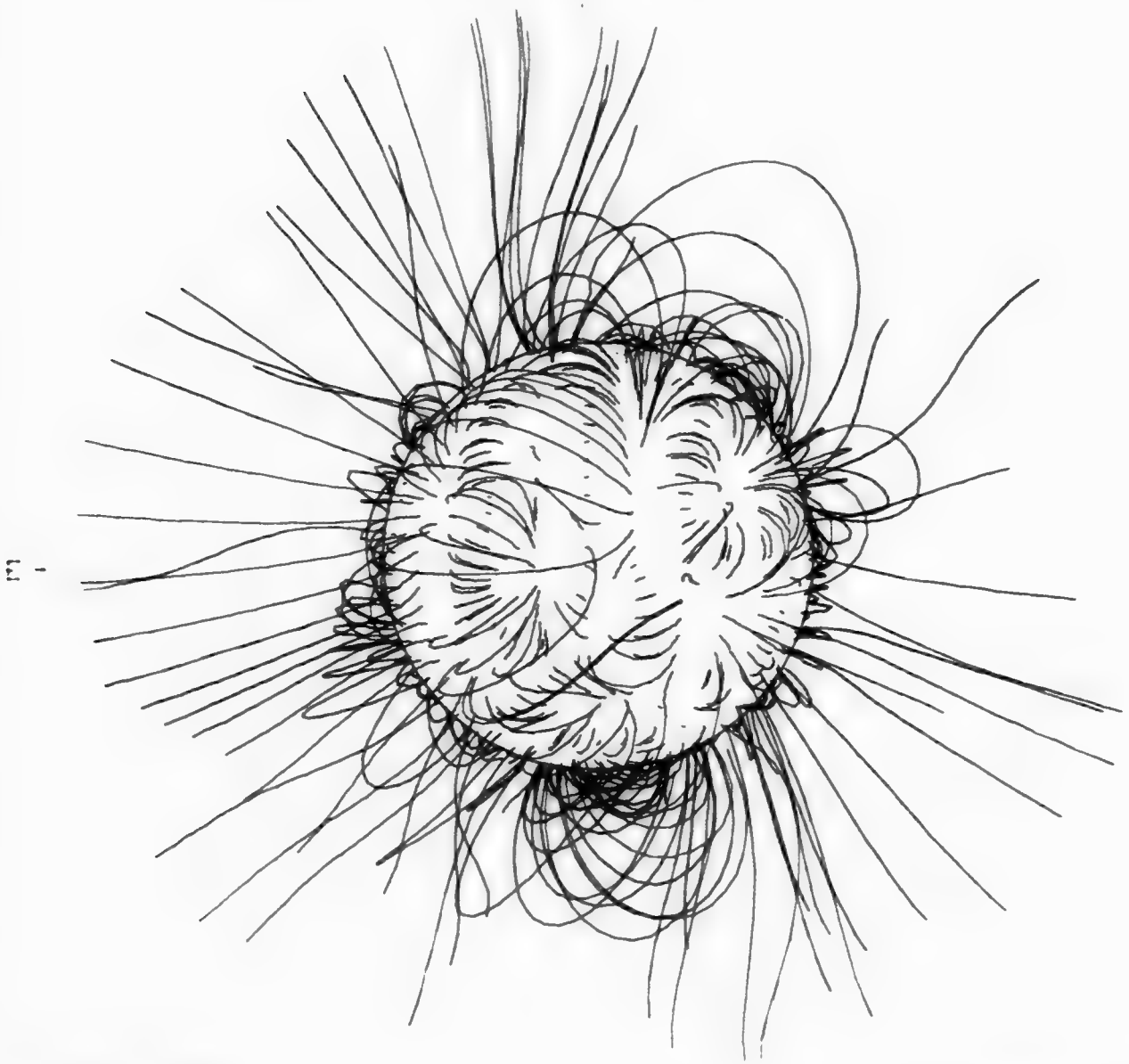


HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

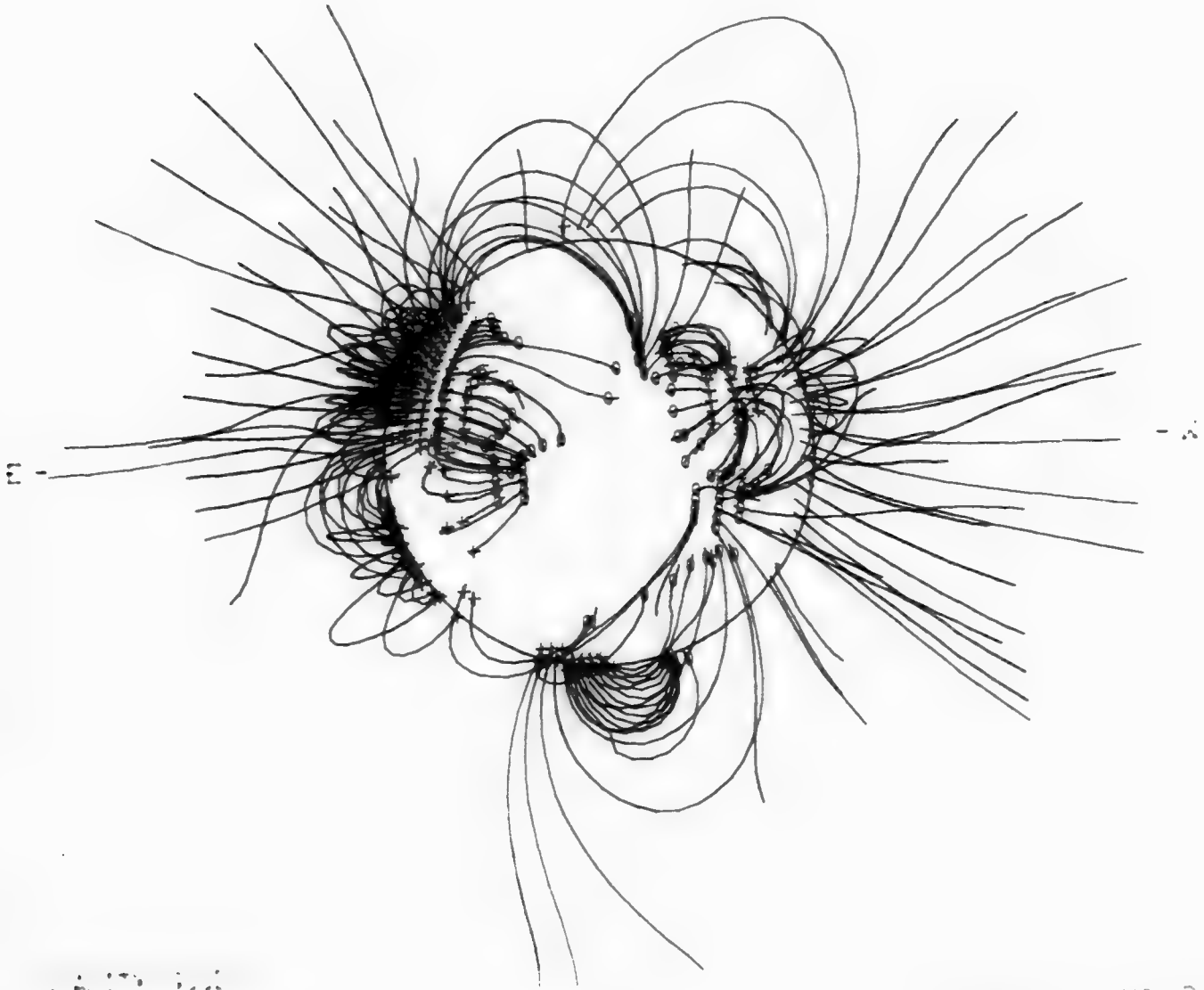


HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

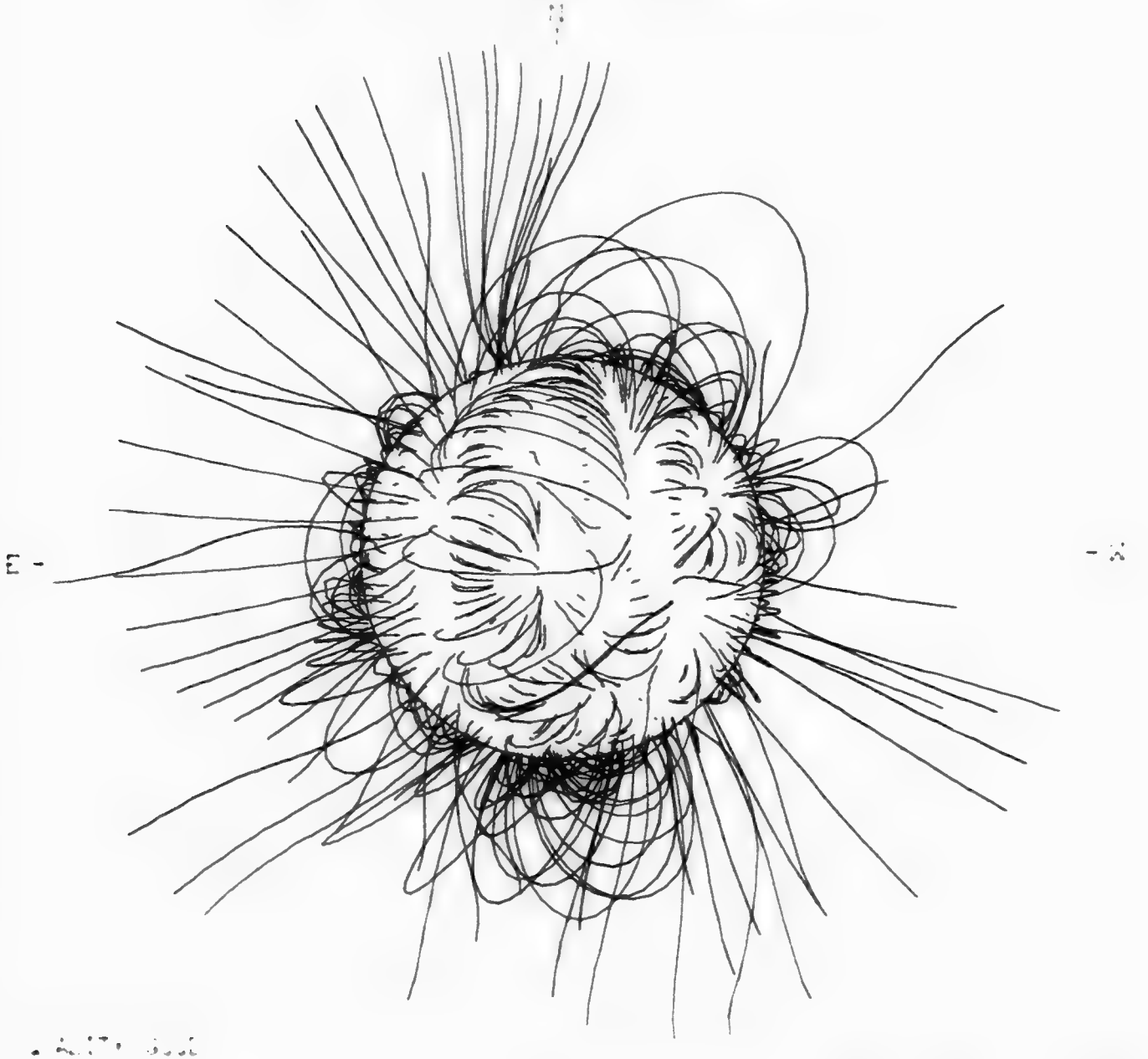
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



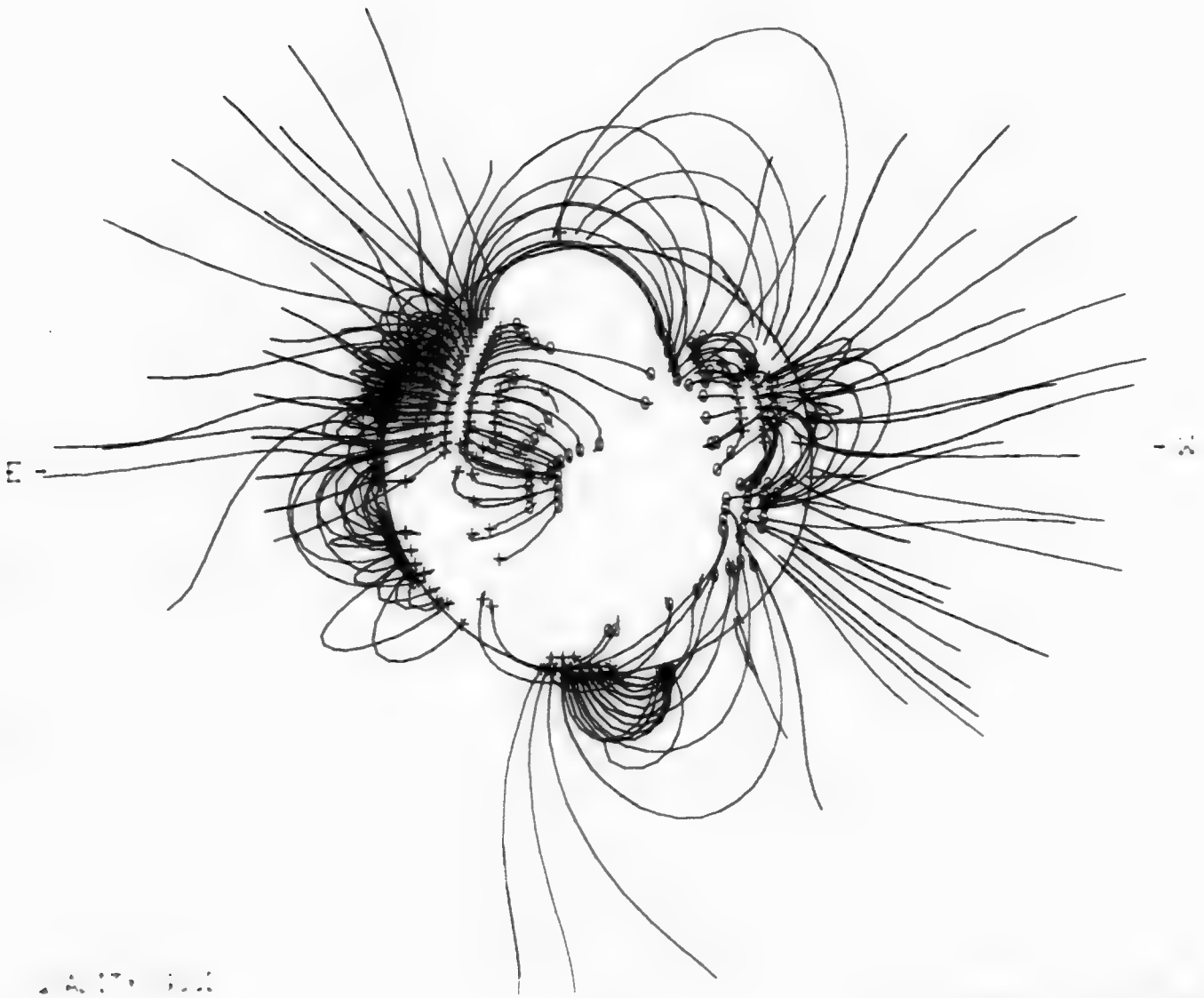
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



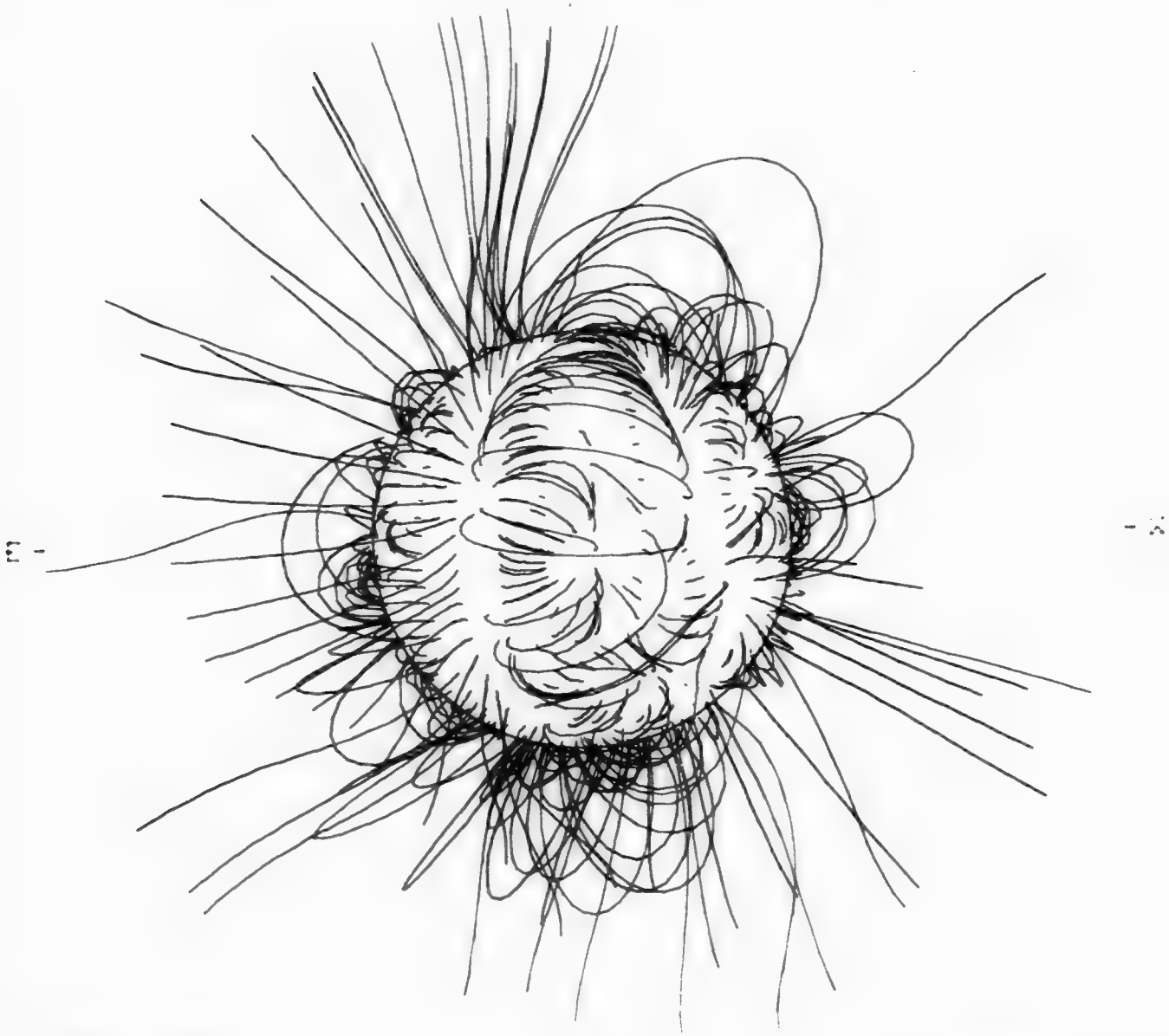
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



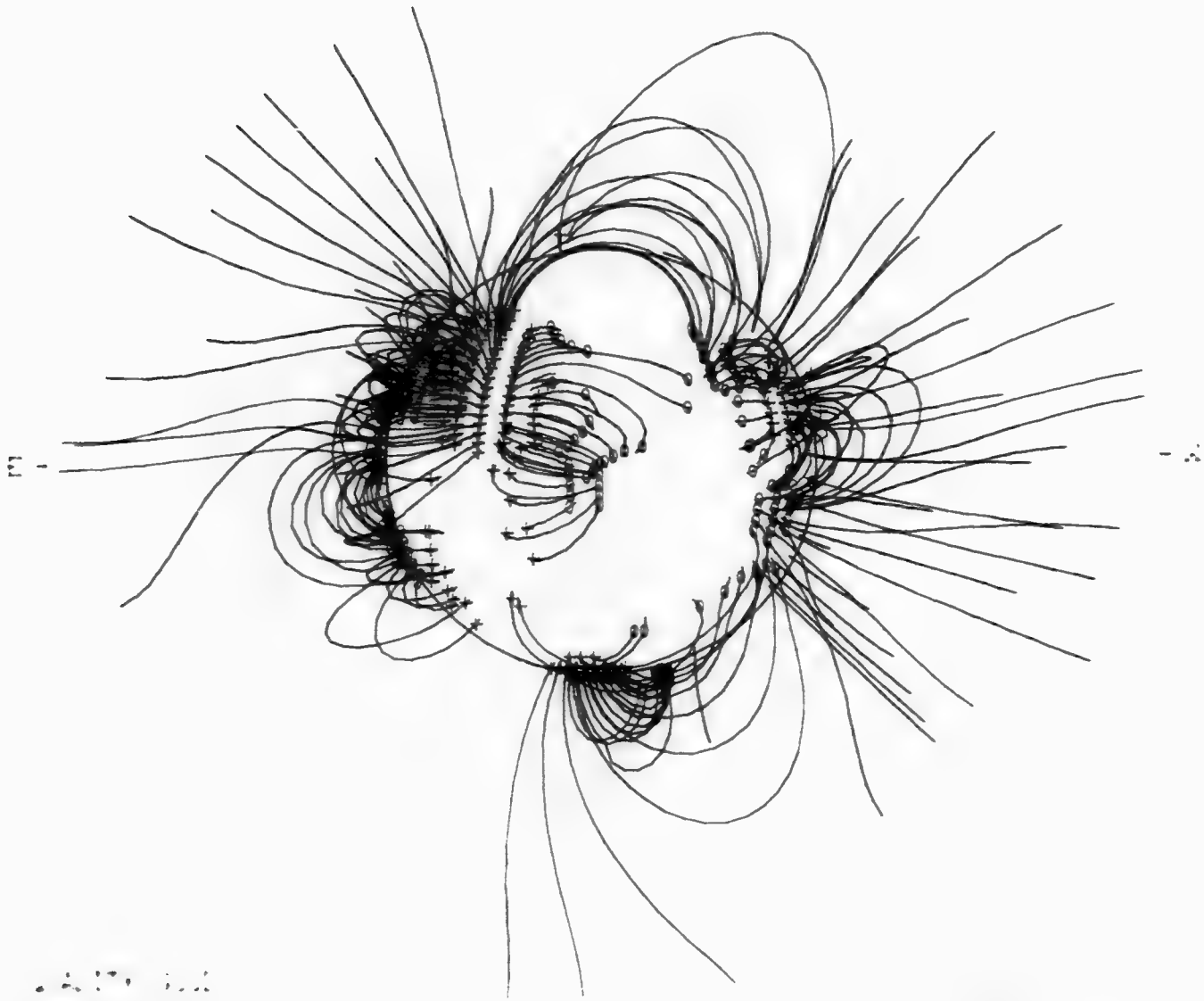
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



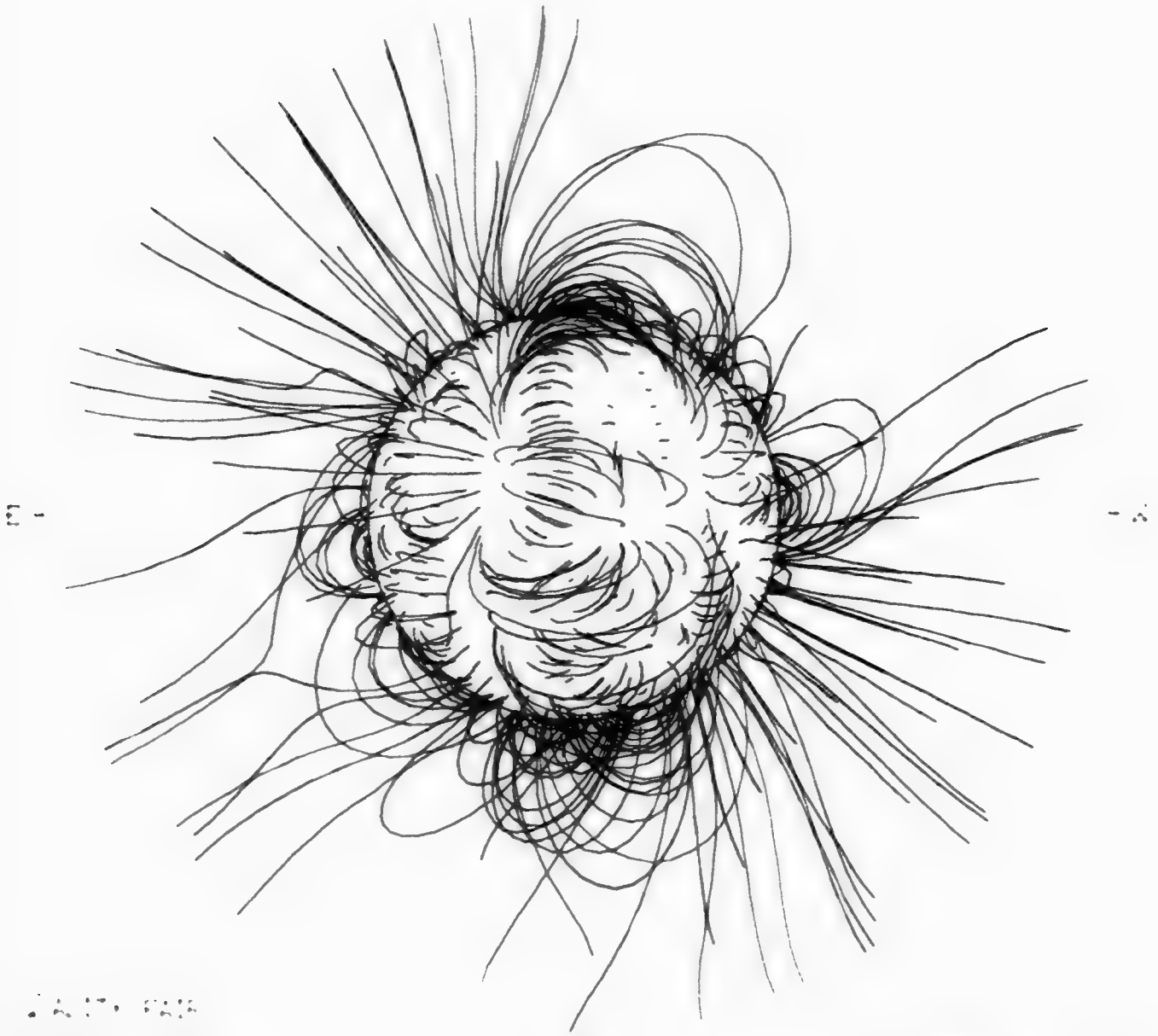
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

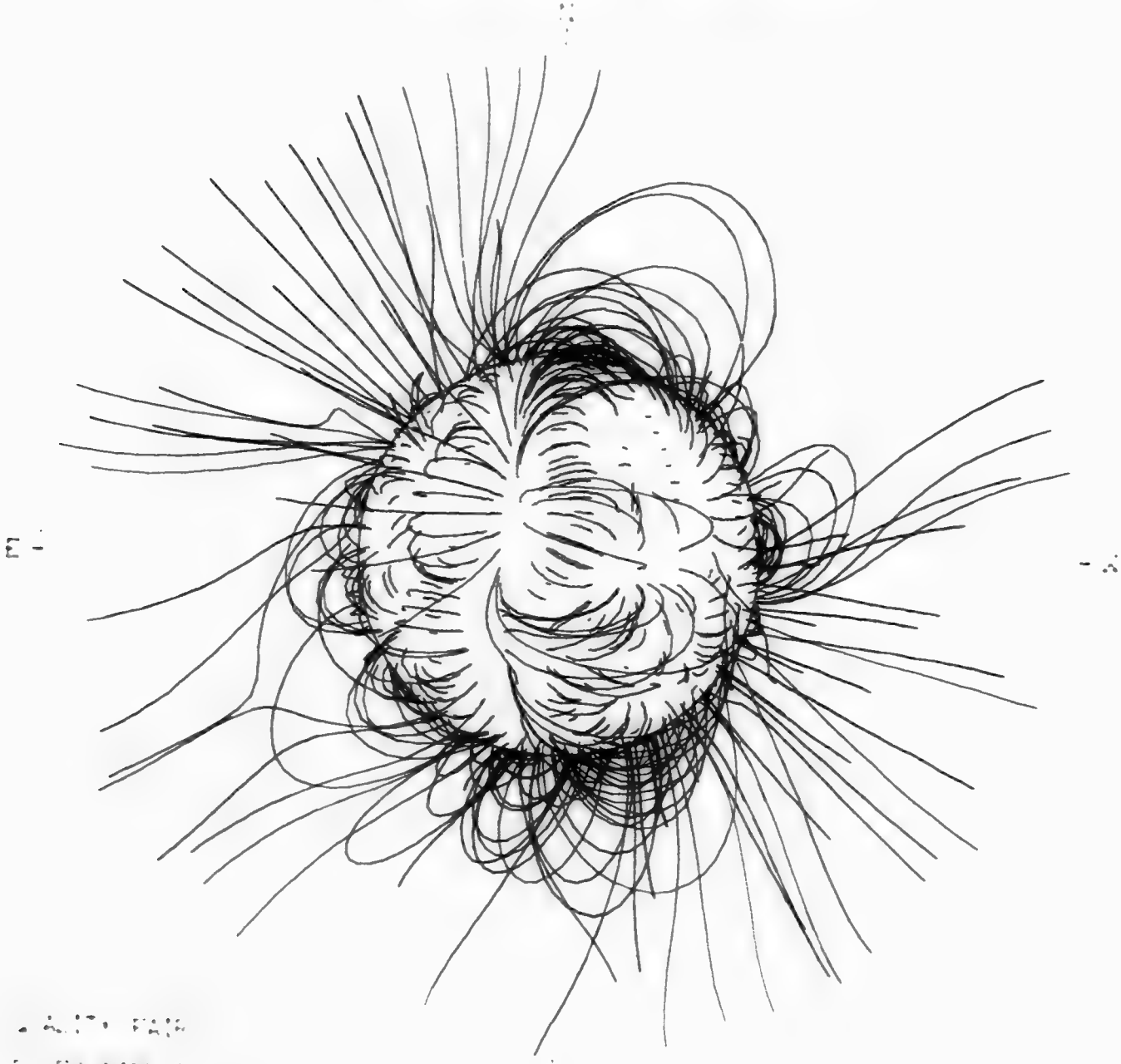


HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



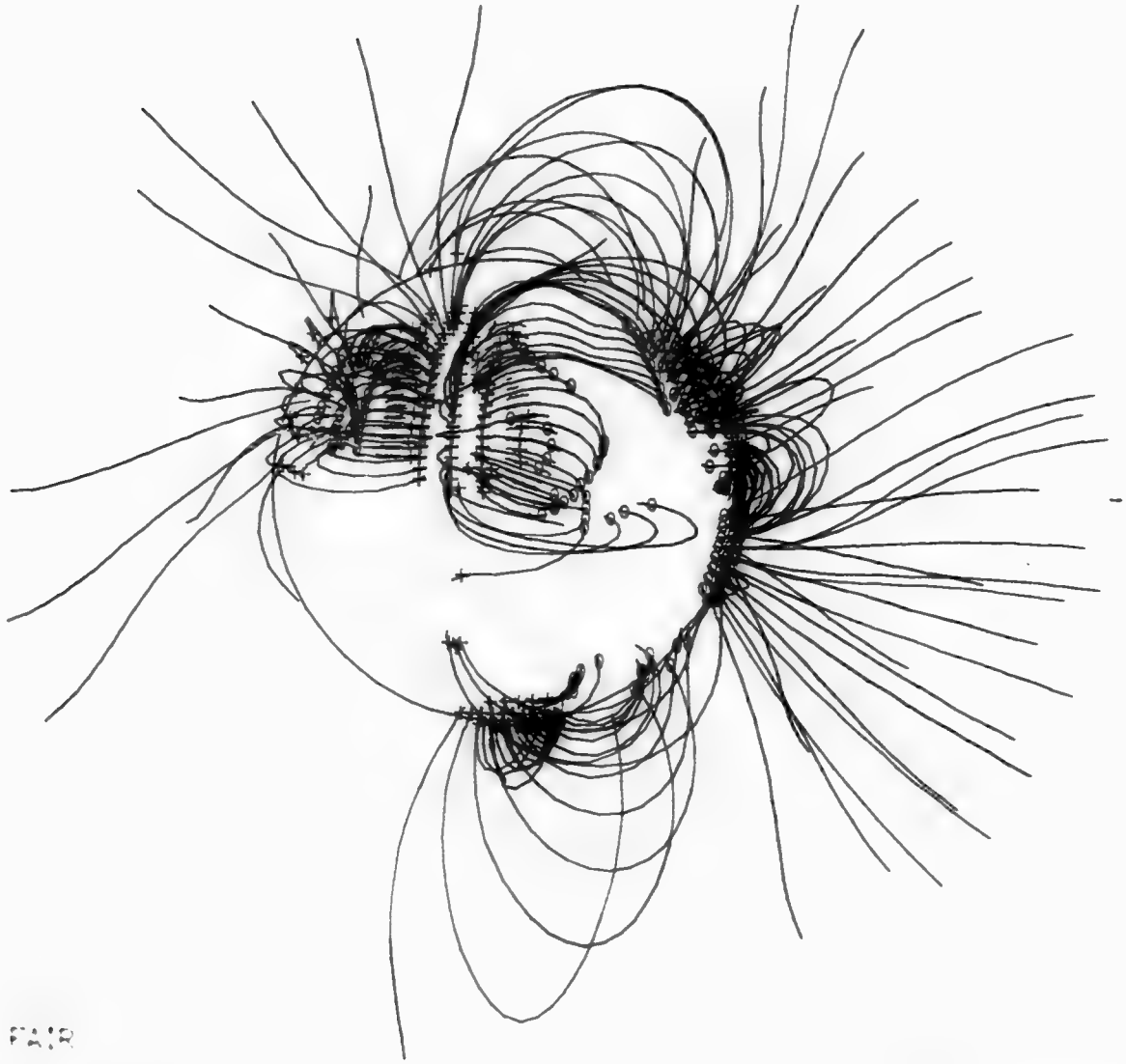
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N

E -

- W

S



- EQUITY PAIR

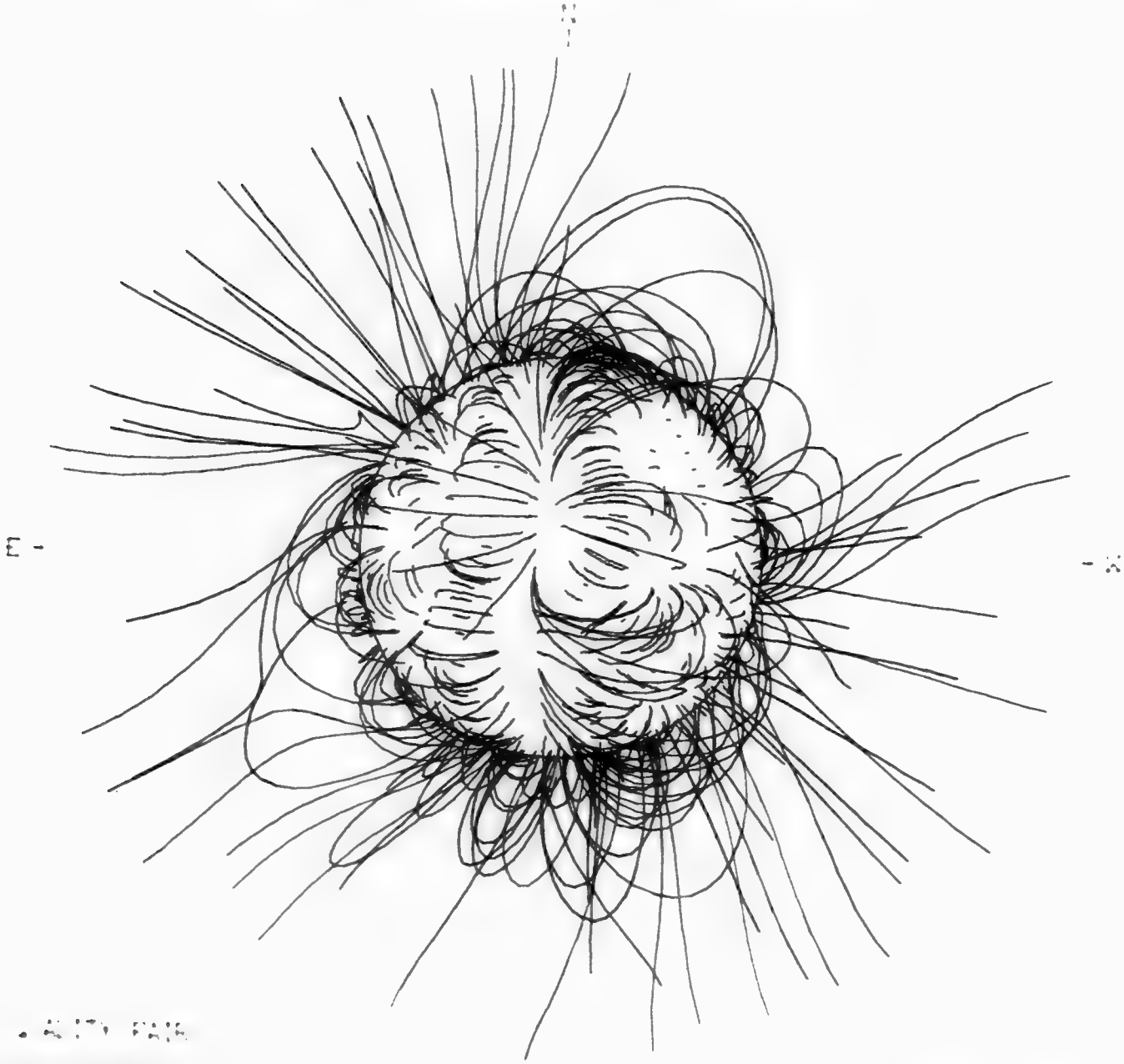
FILES DIREC

DATA [illegible] 1555.00

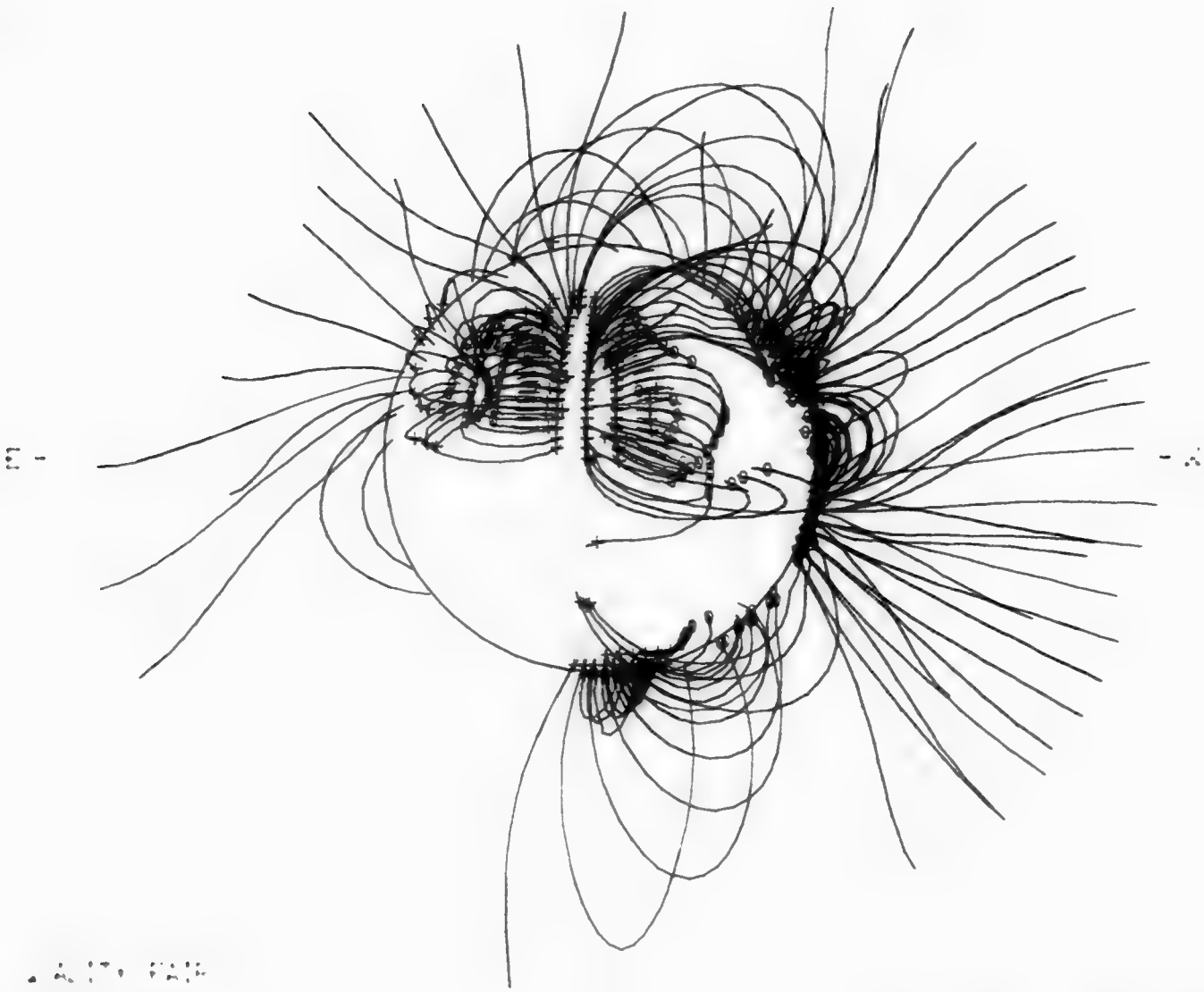
ROT. 1555 [illegible]

S.P. DEC. [illegible]

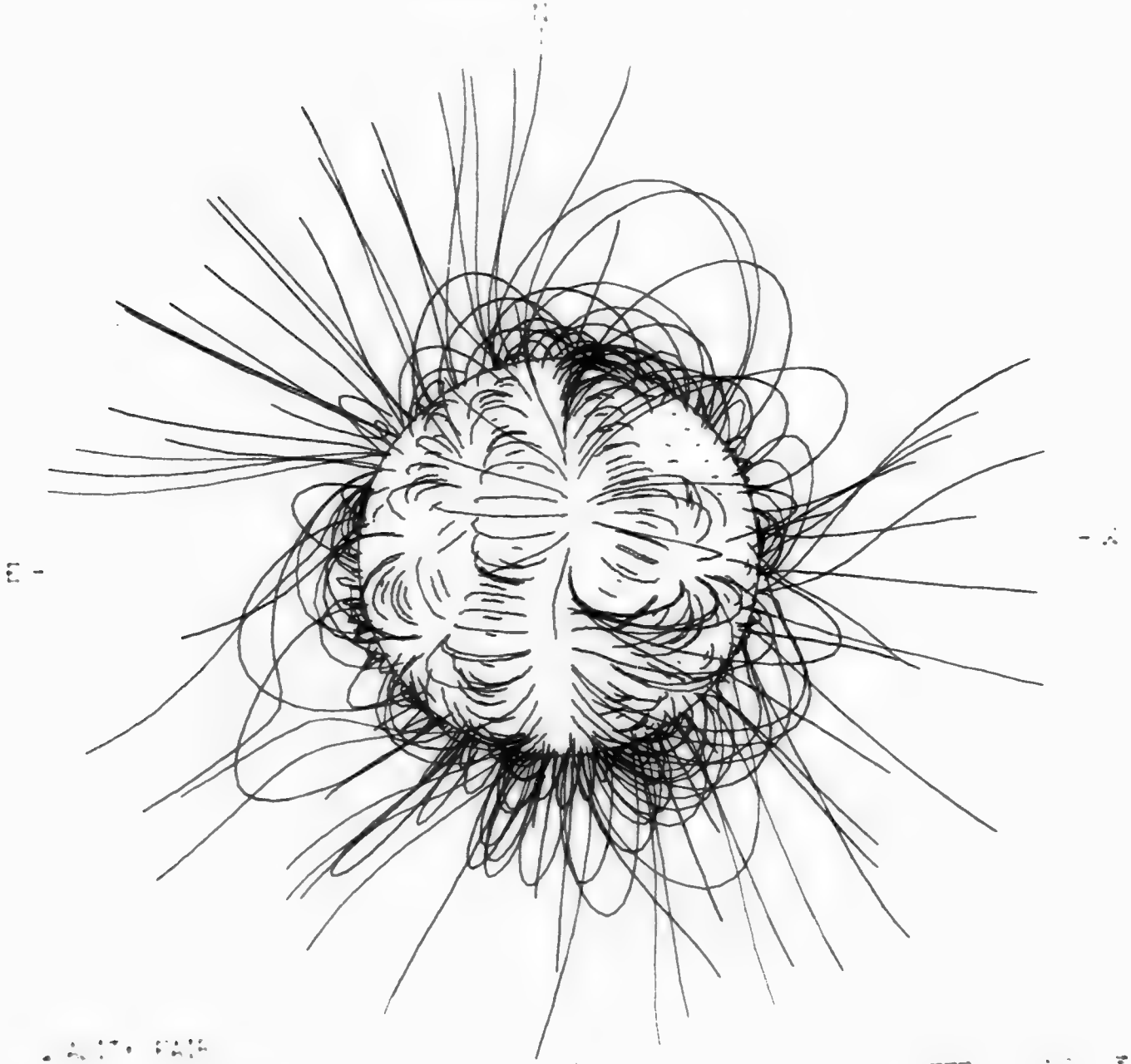
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



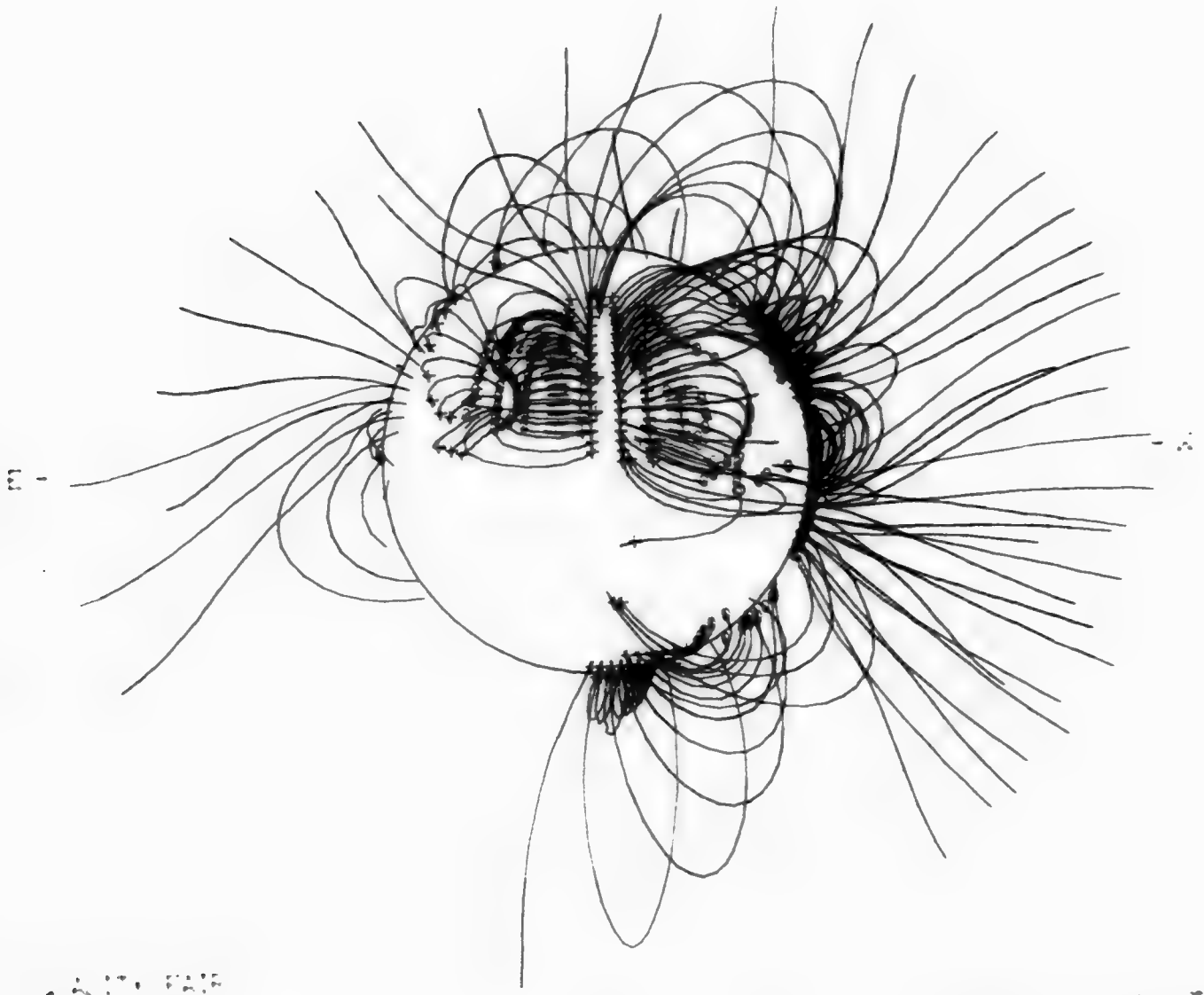
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



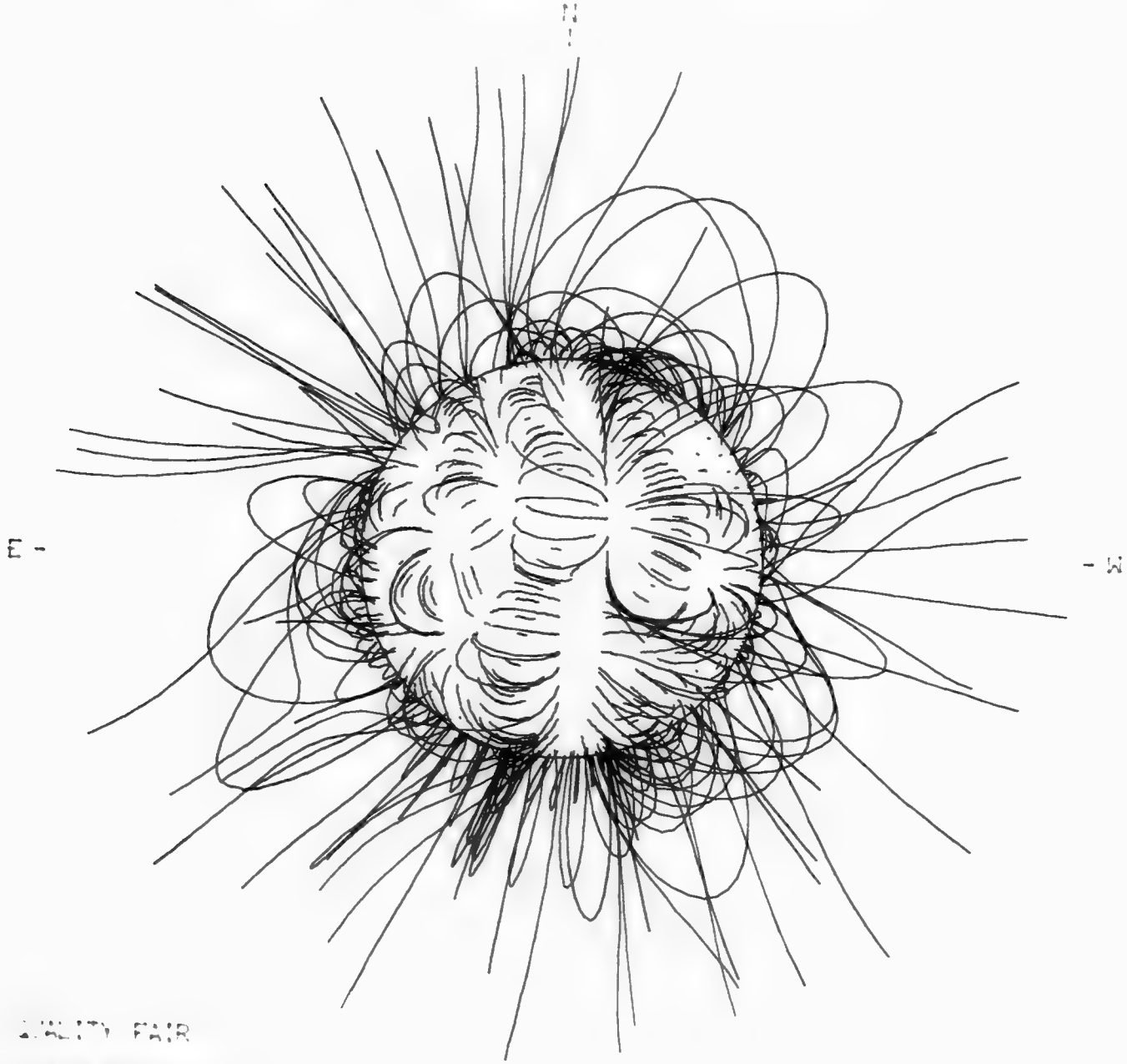
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



QUALITY FAIR

RULES DIRECT

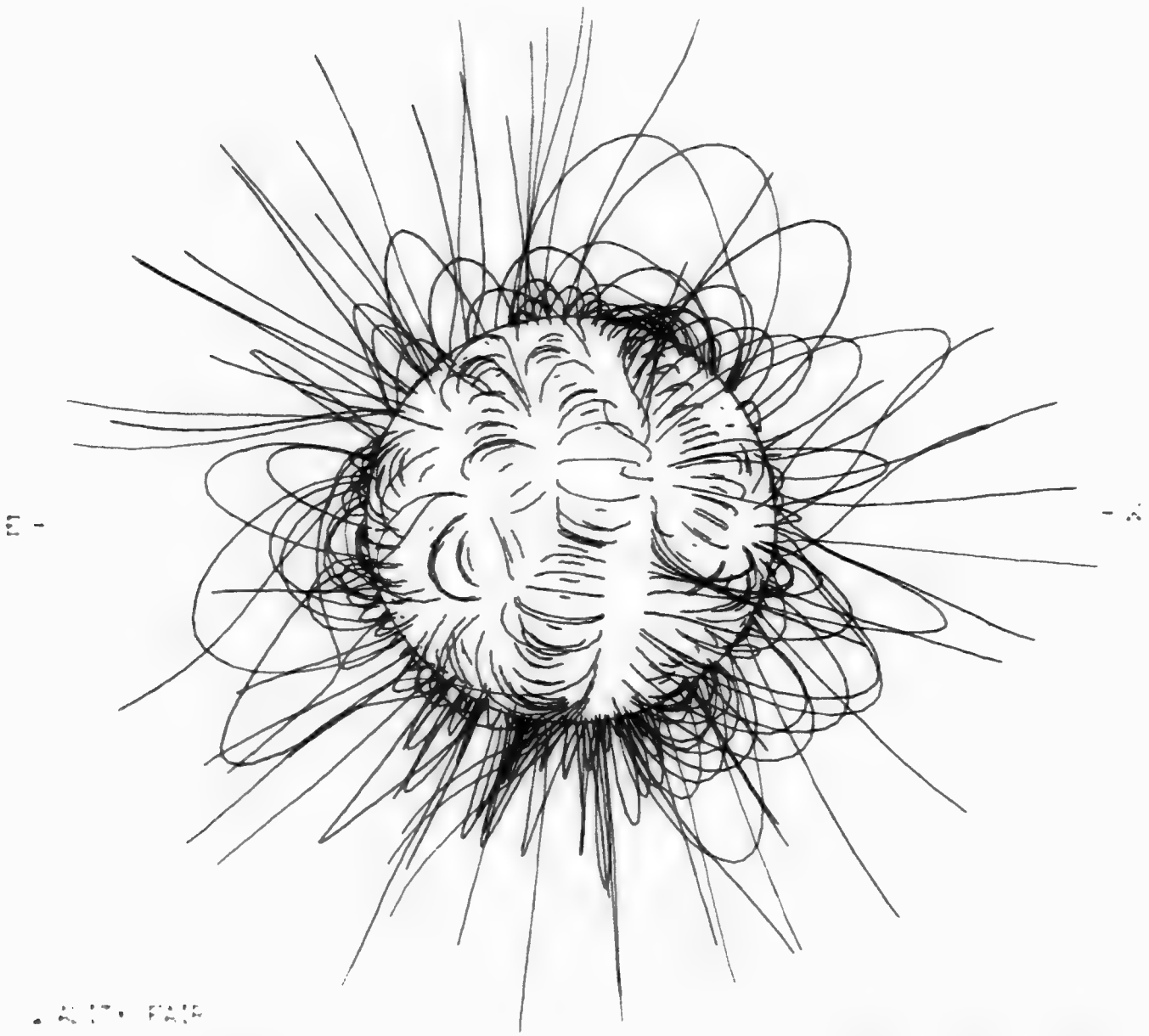
DATA AVAILABLE 1555.00

R.T. 1555 LONG. 221°

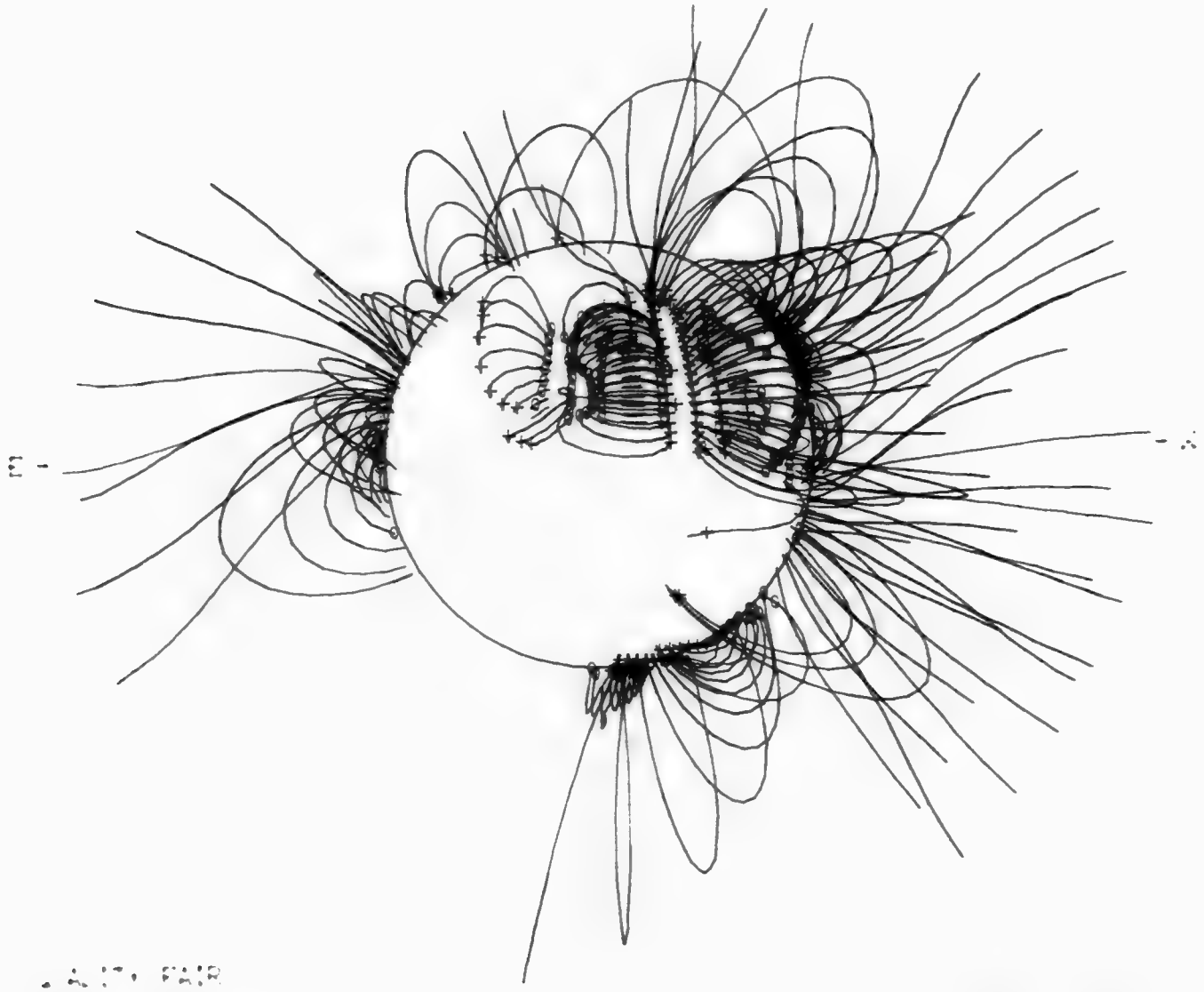
8.2 DEC 1969

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



A ALT= FAIR

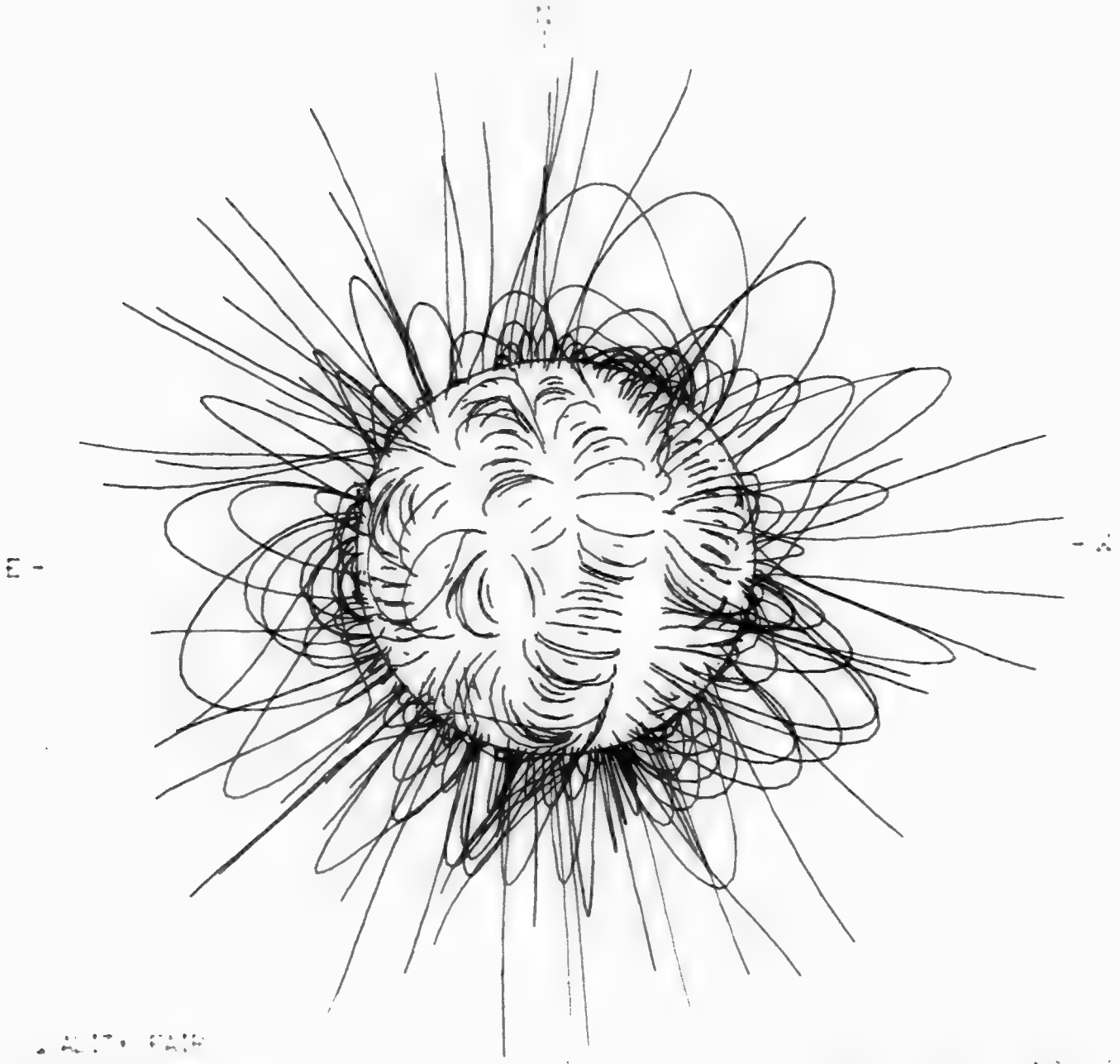
POLES DIRECT

DATA AVAIL ON 1555.00

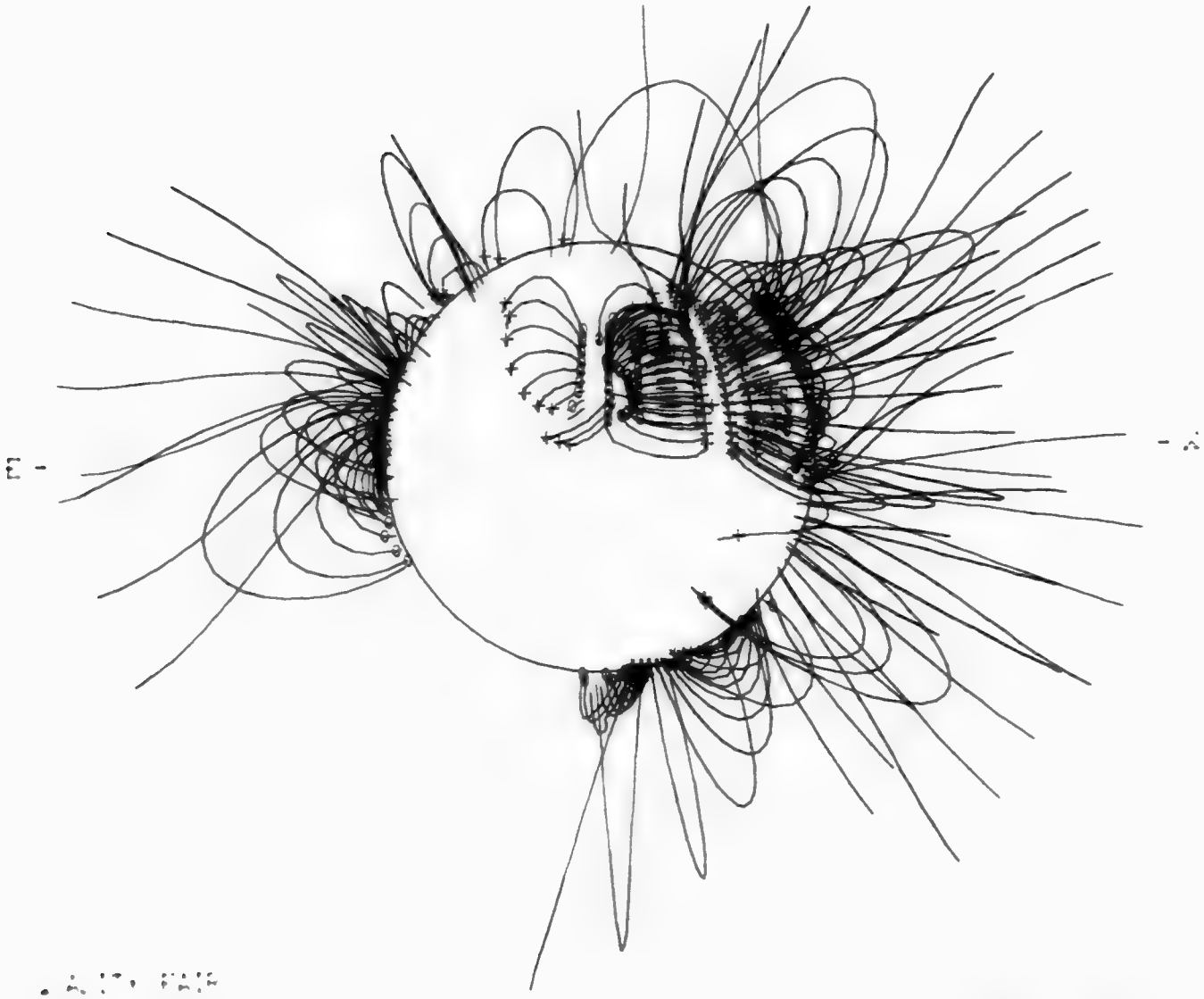
E.T. 1555 [illegible]

[illegible]

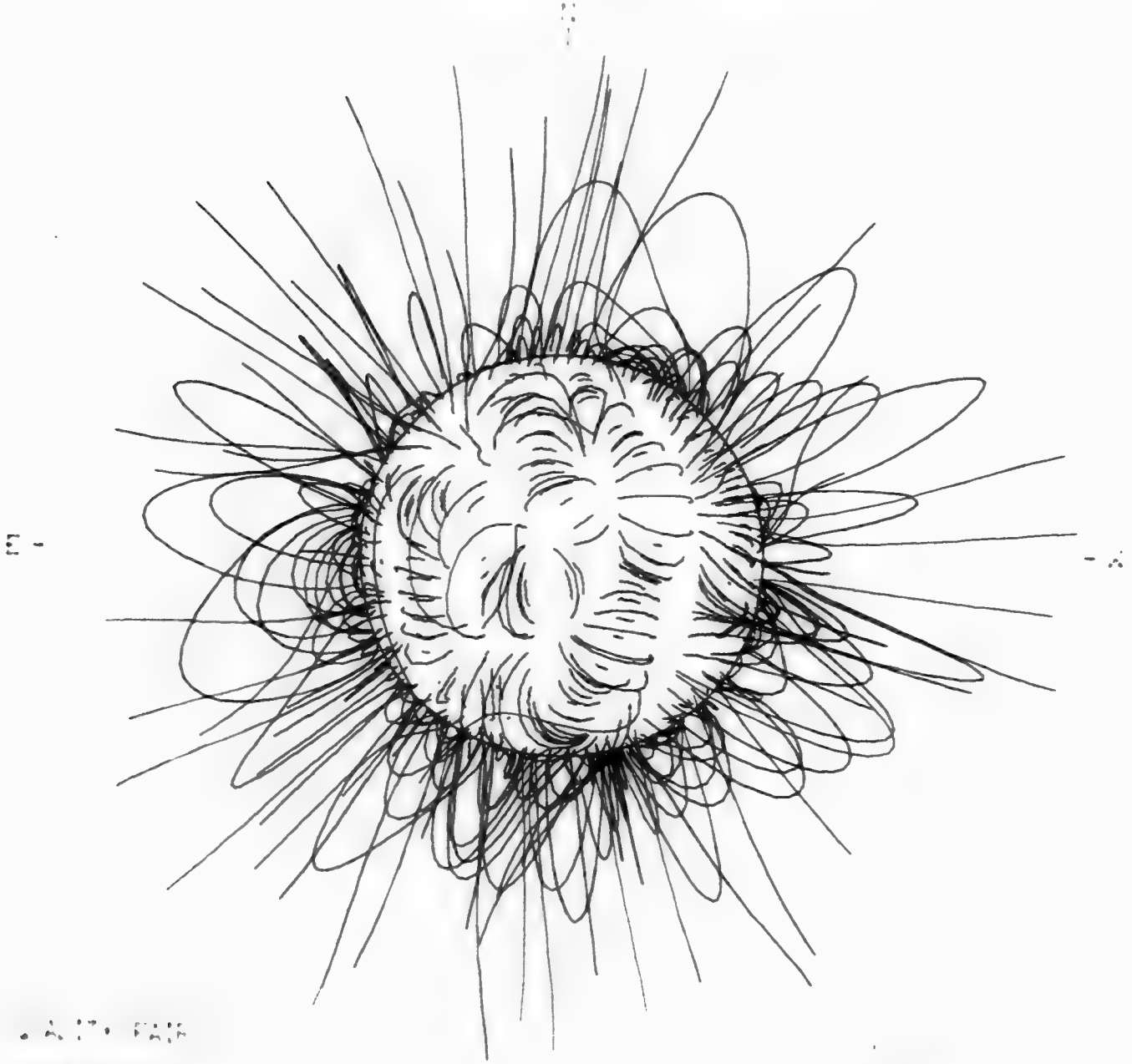
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



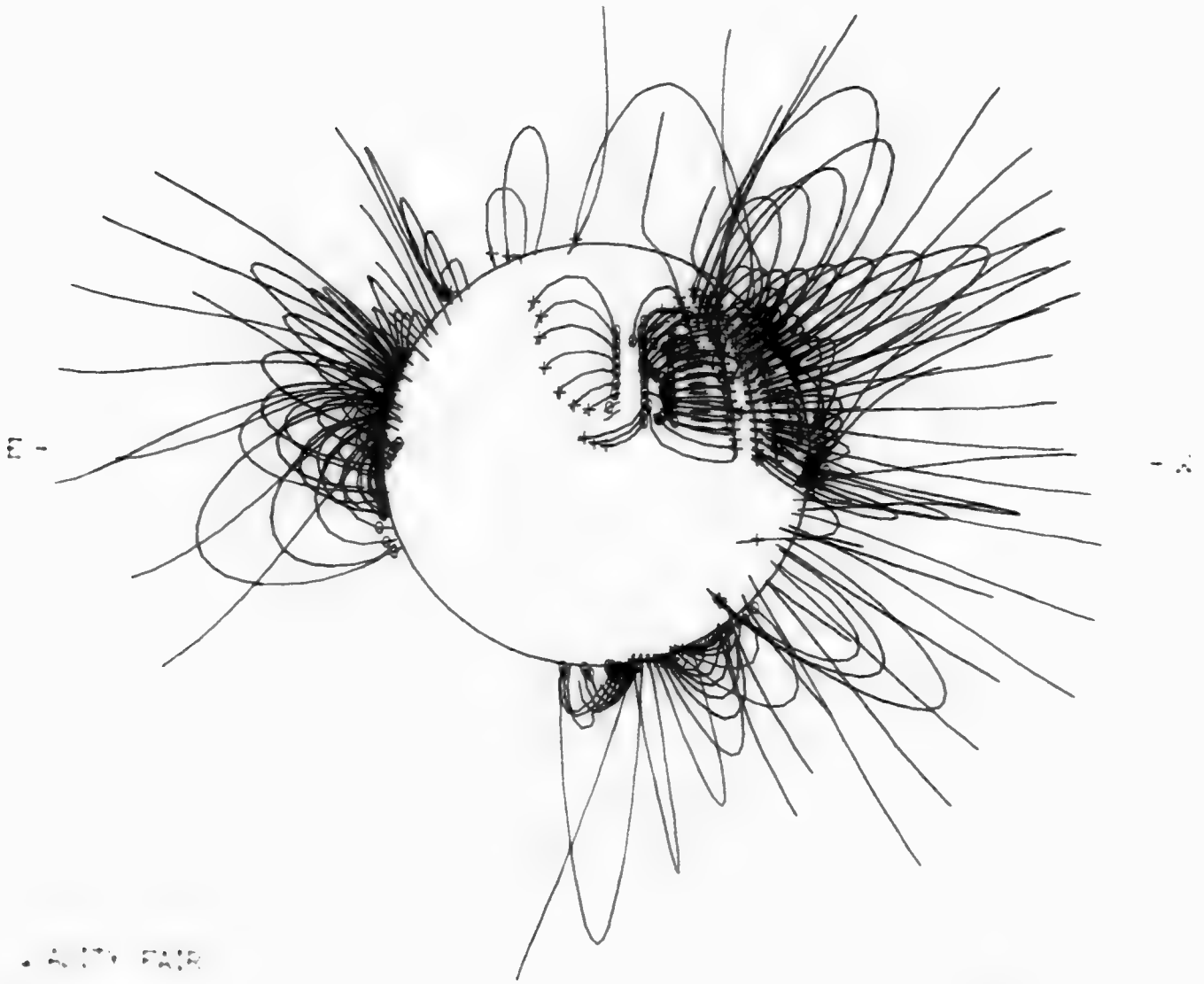
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



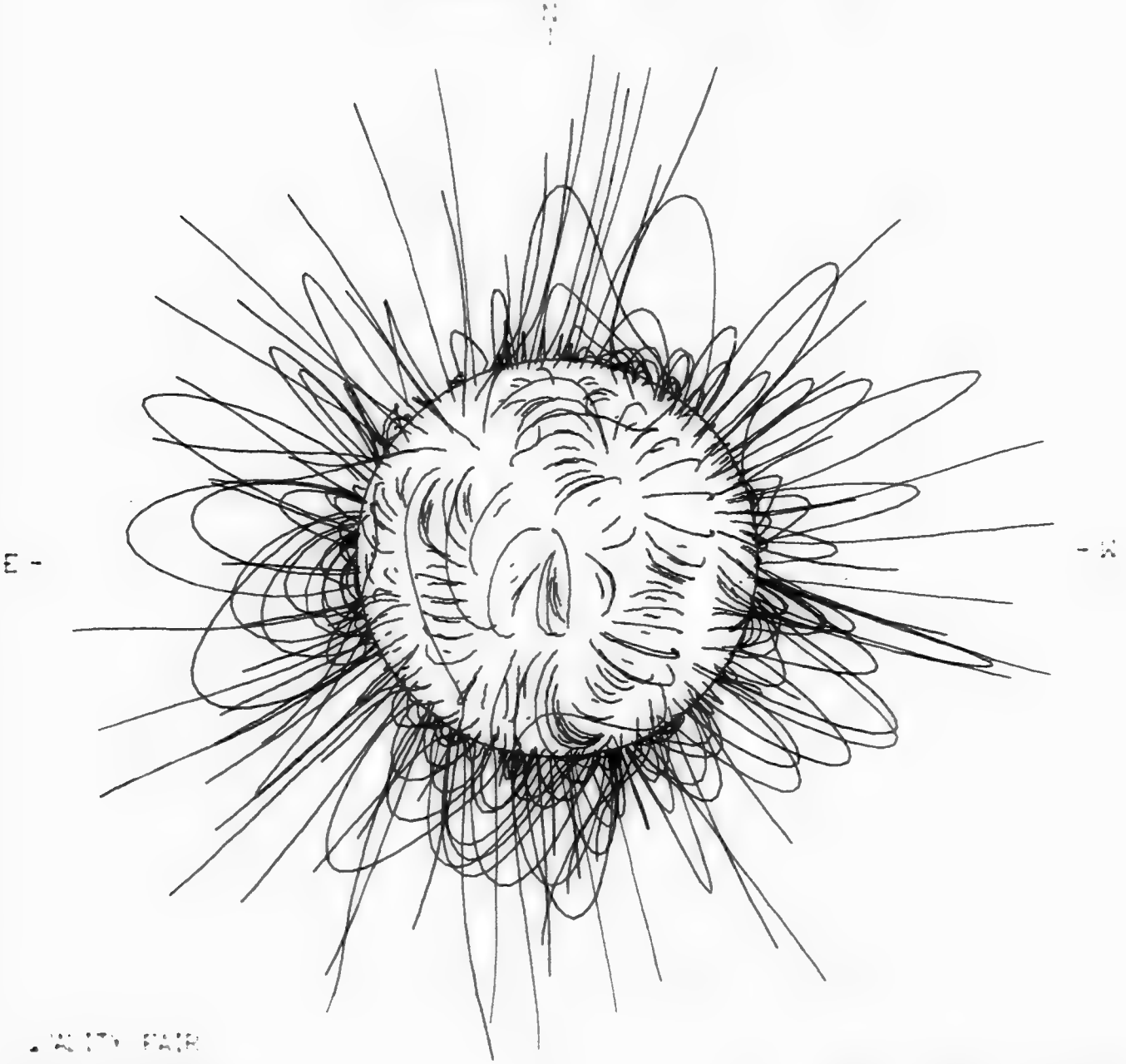
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



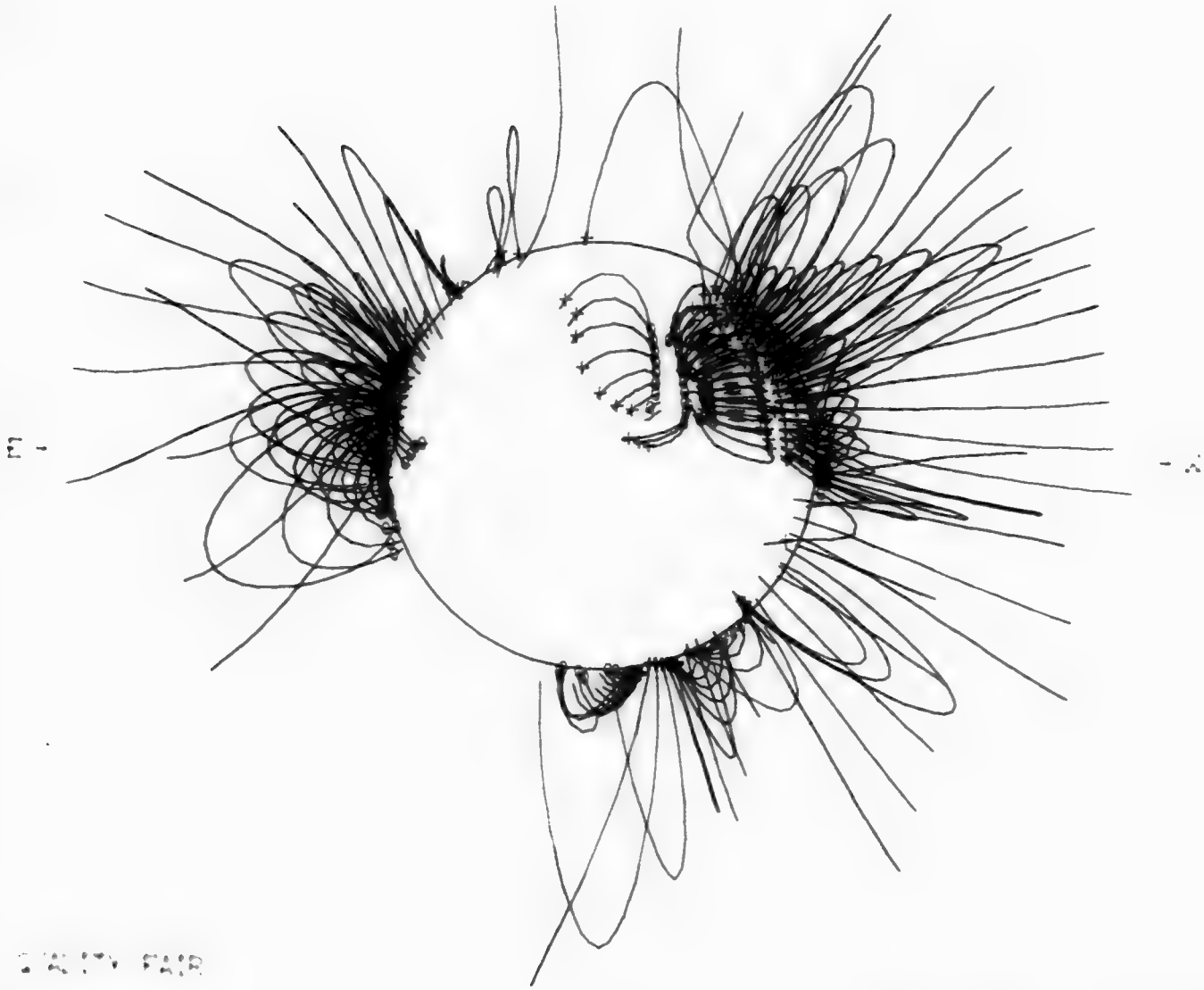
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

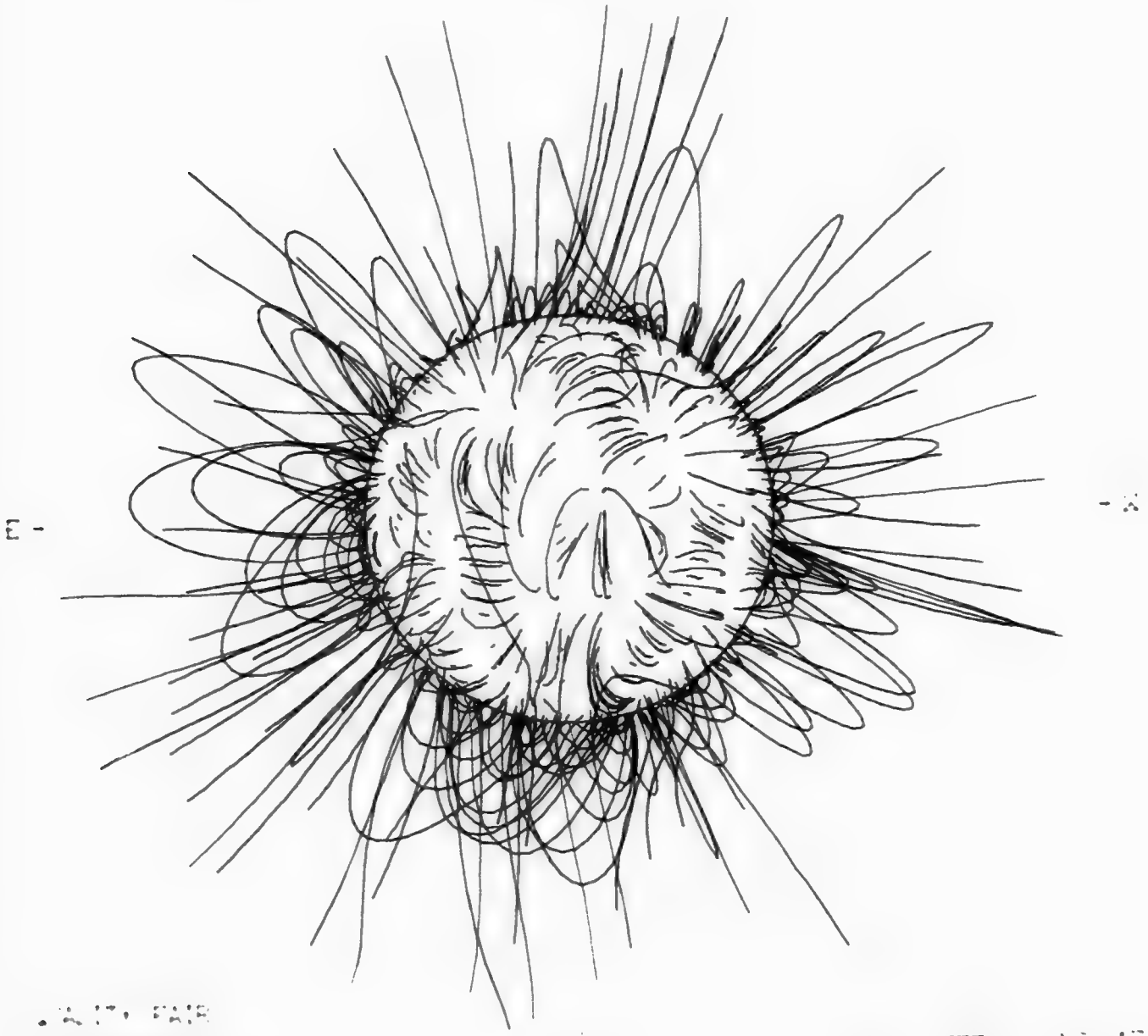


QUALITY FAIR

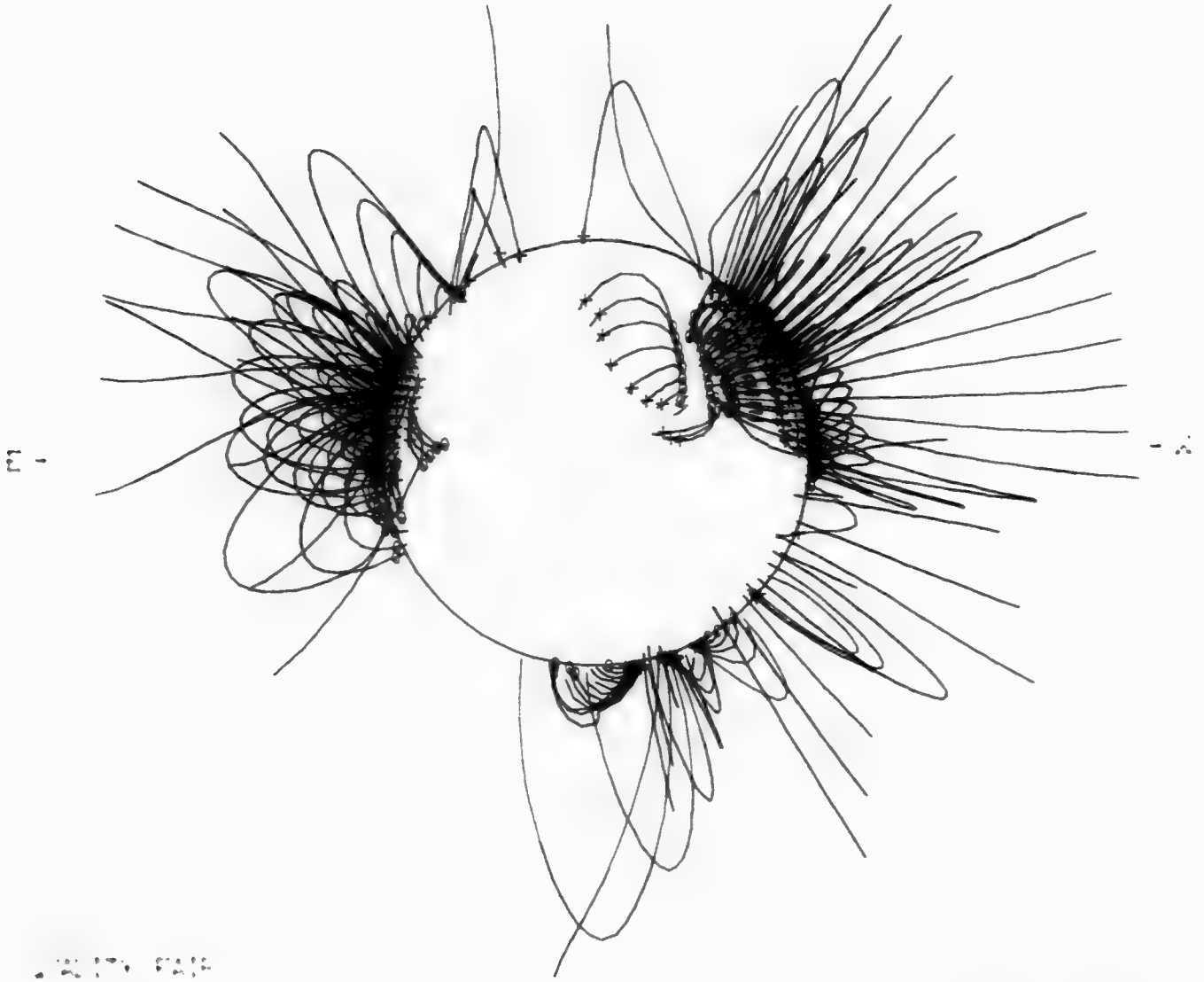
FILES DIRECT

DATA AVAILABLE 1965.01

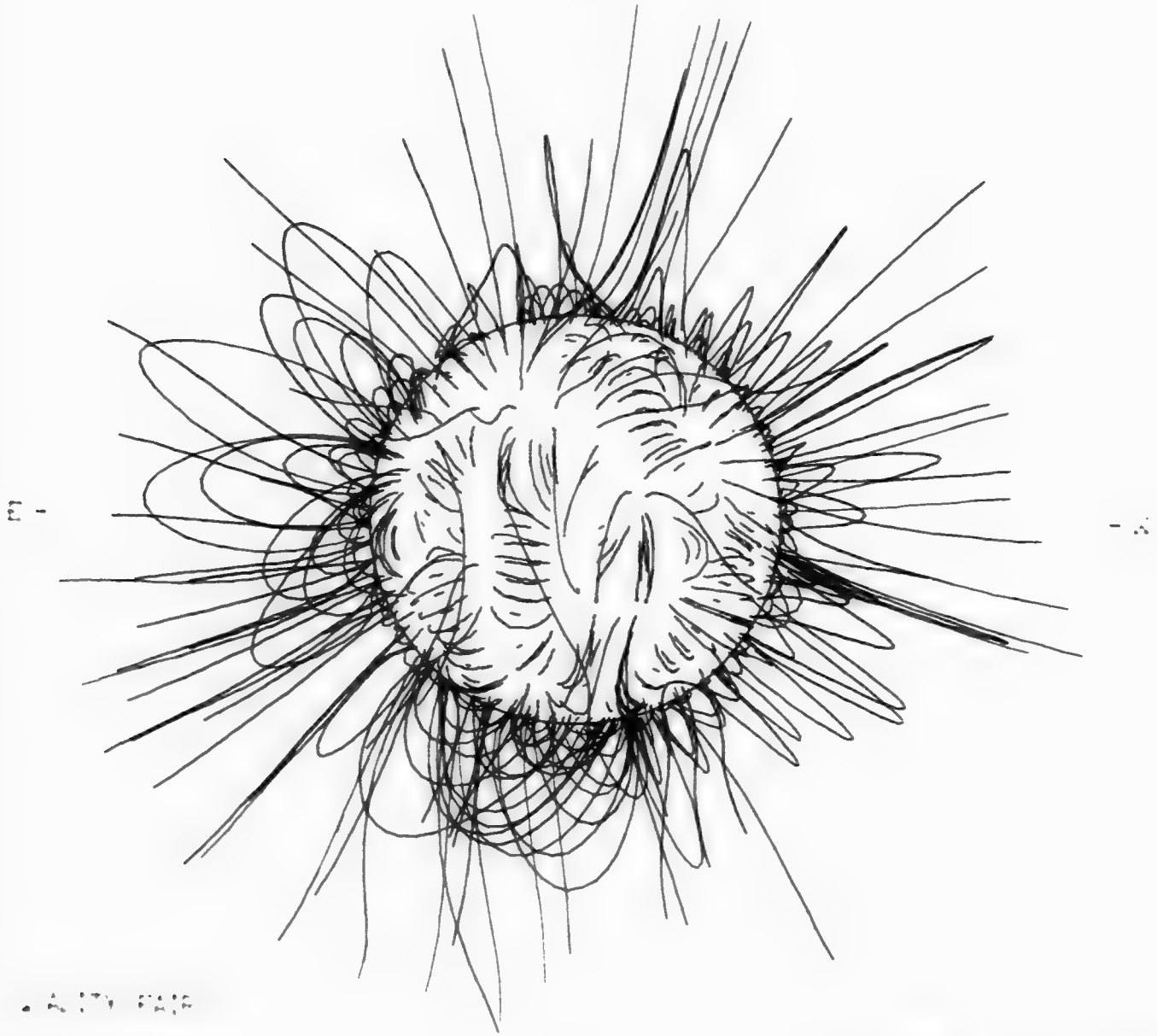
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



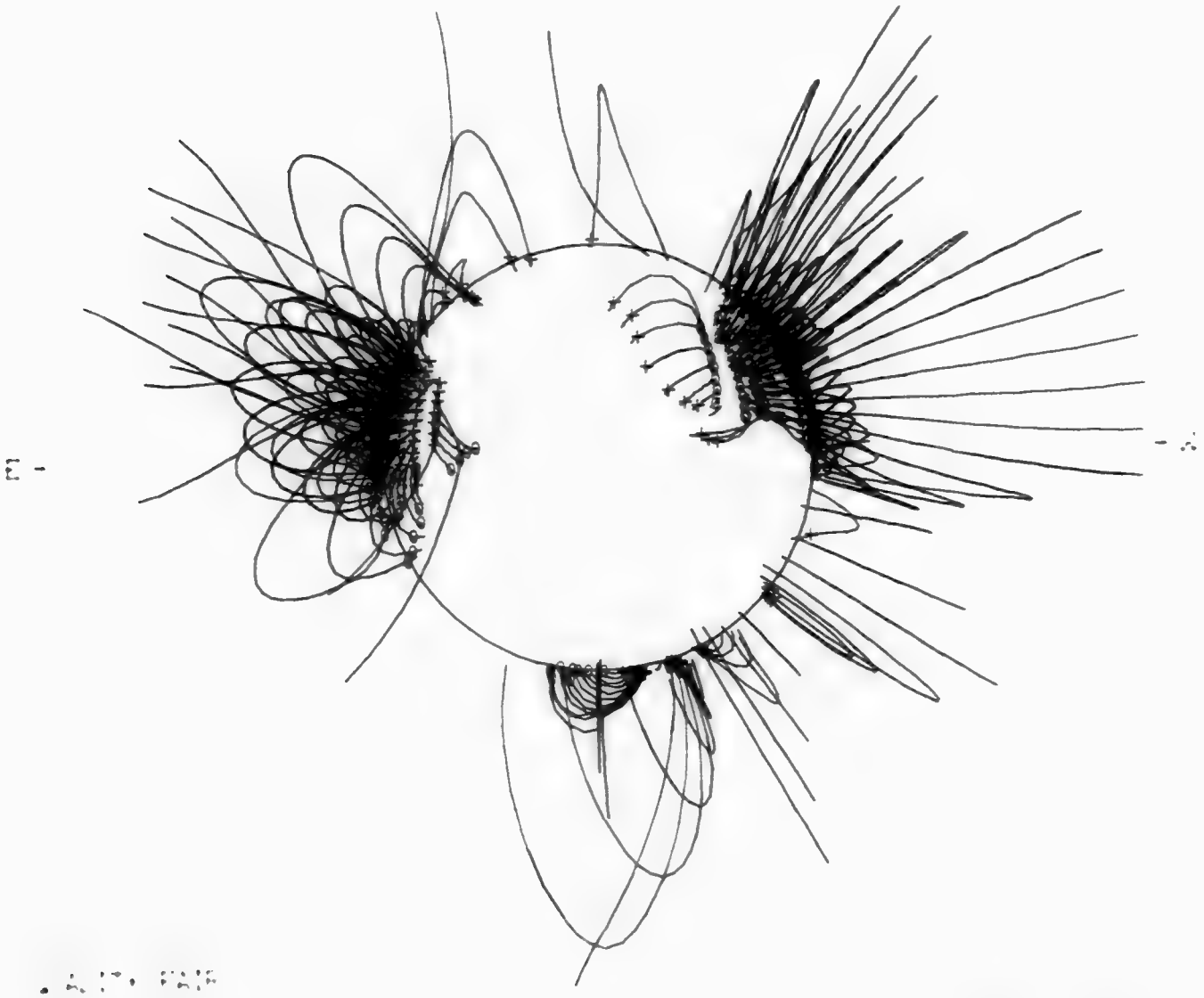
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



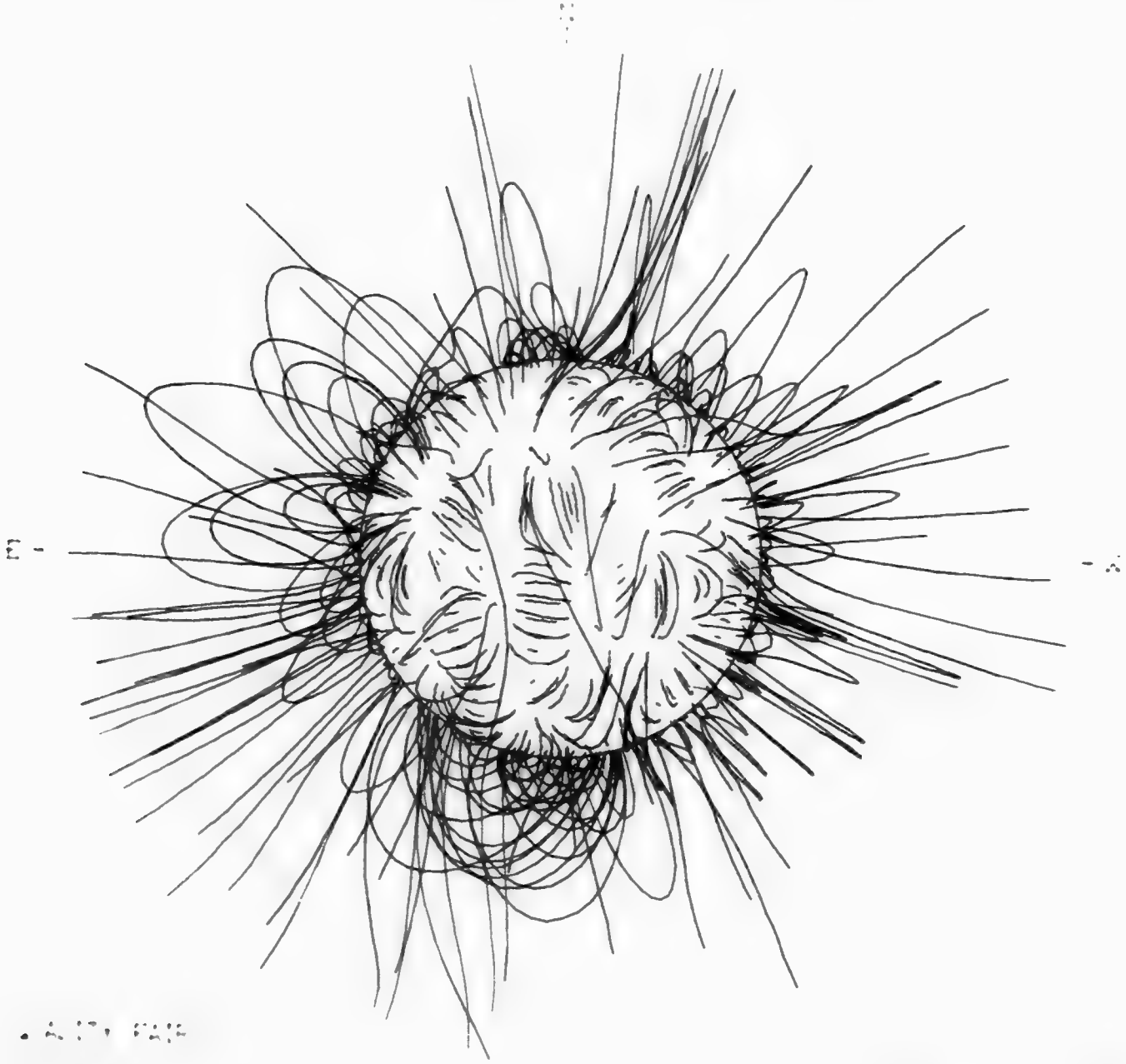
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



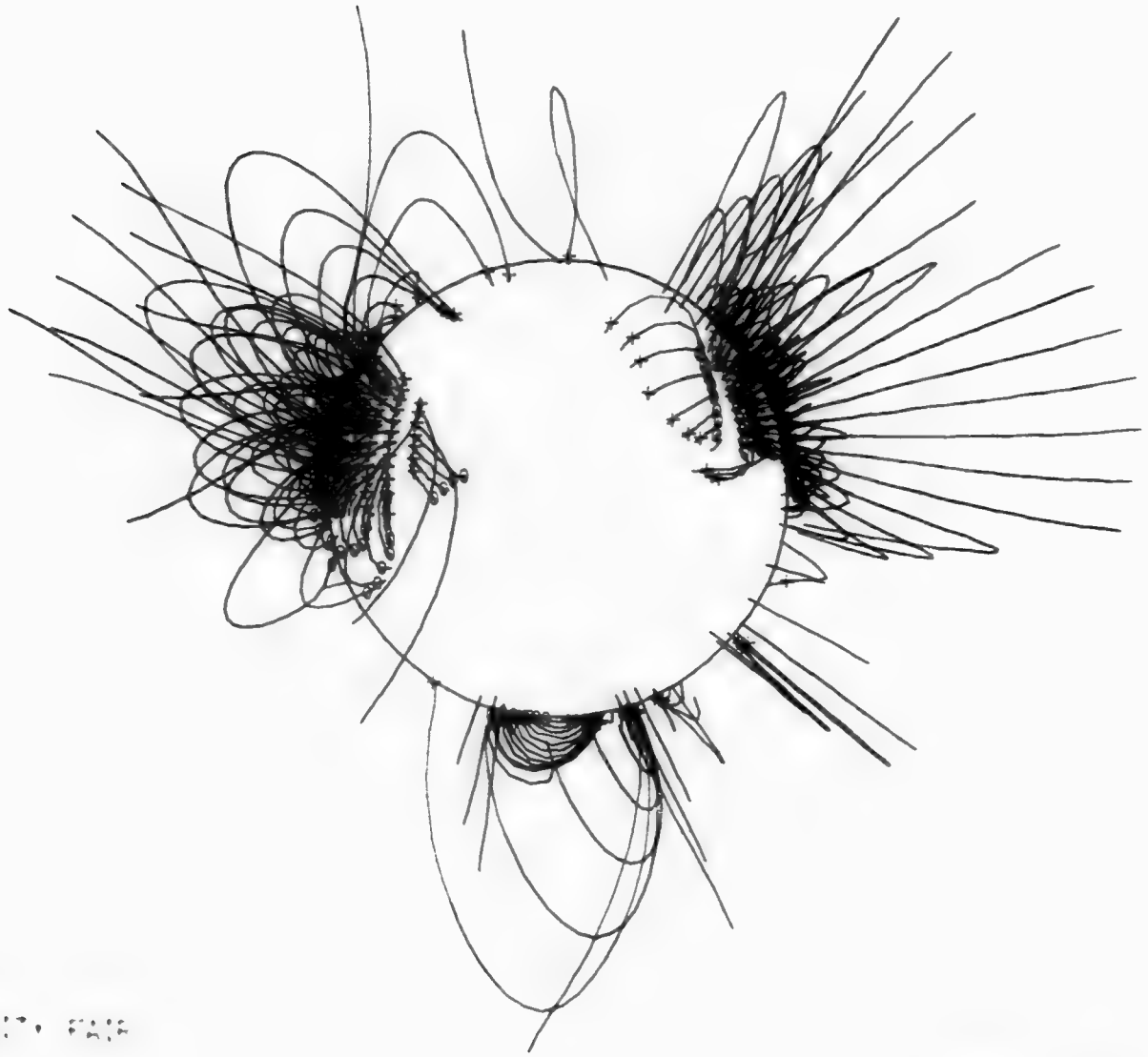
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



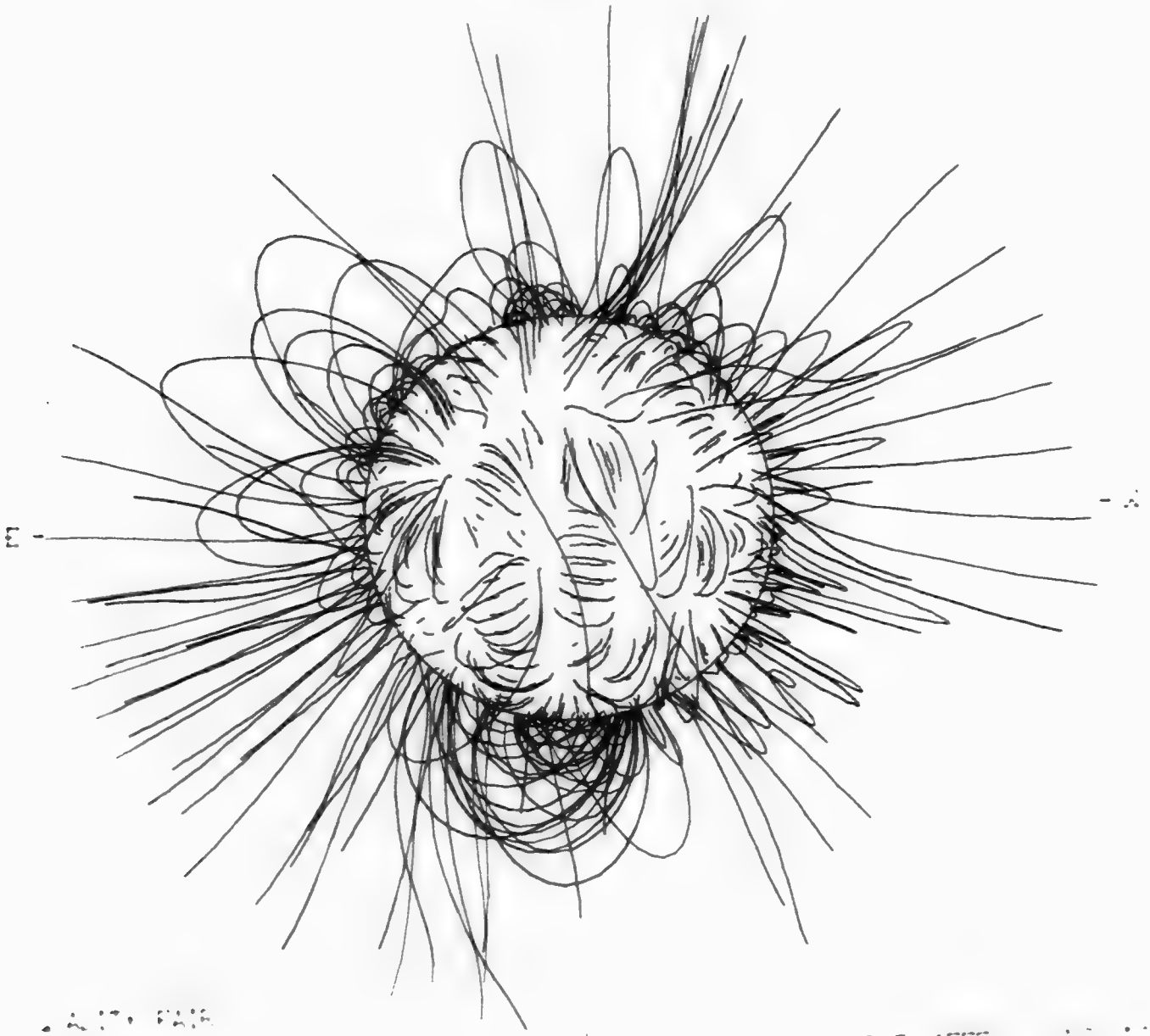
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



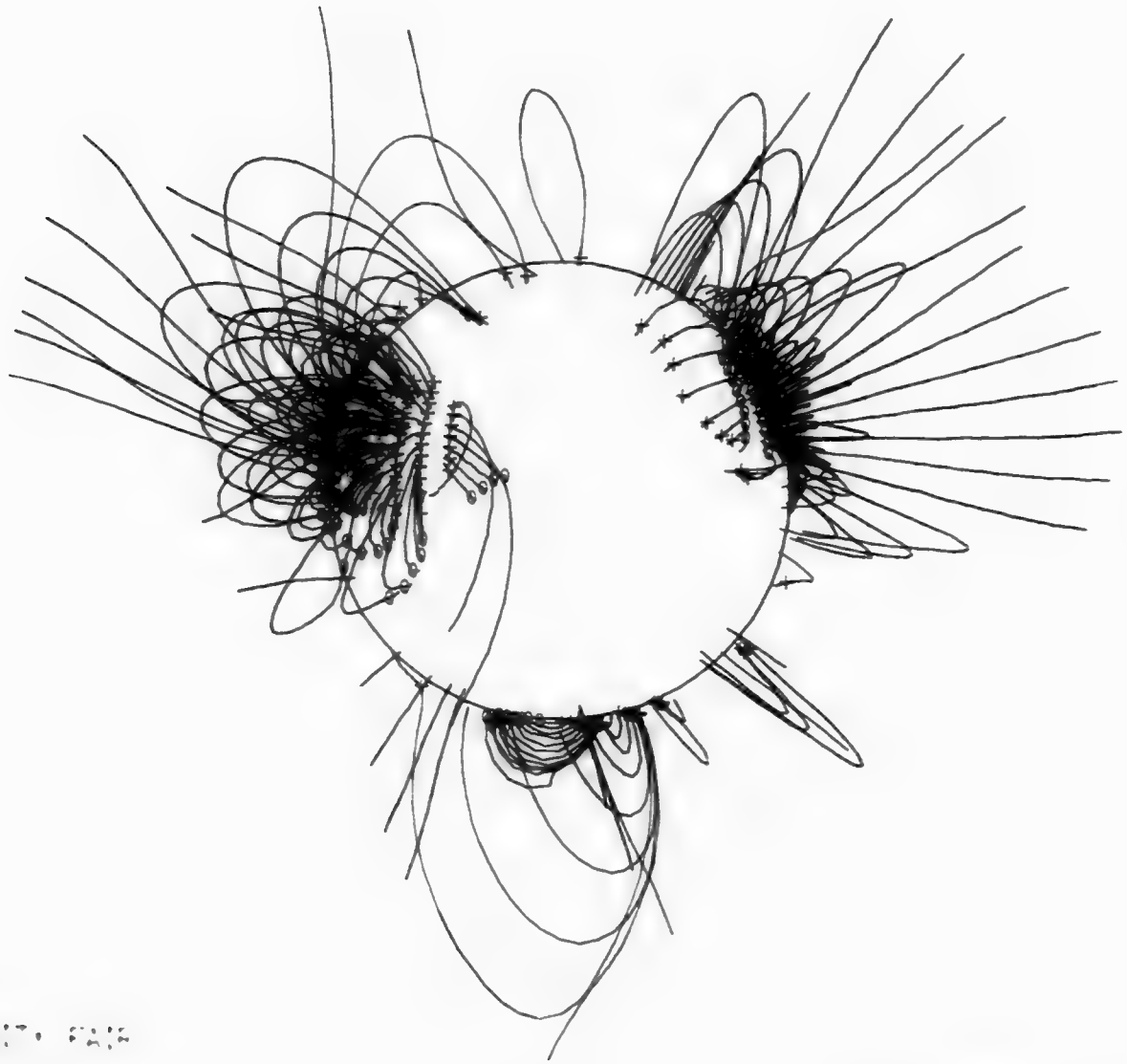
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



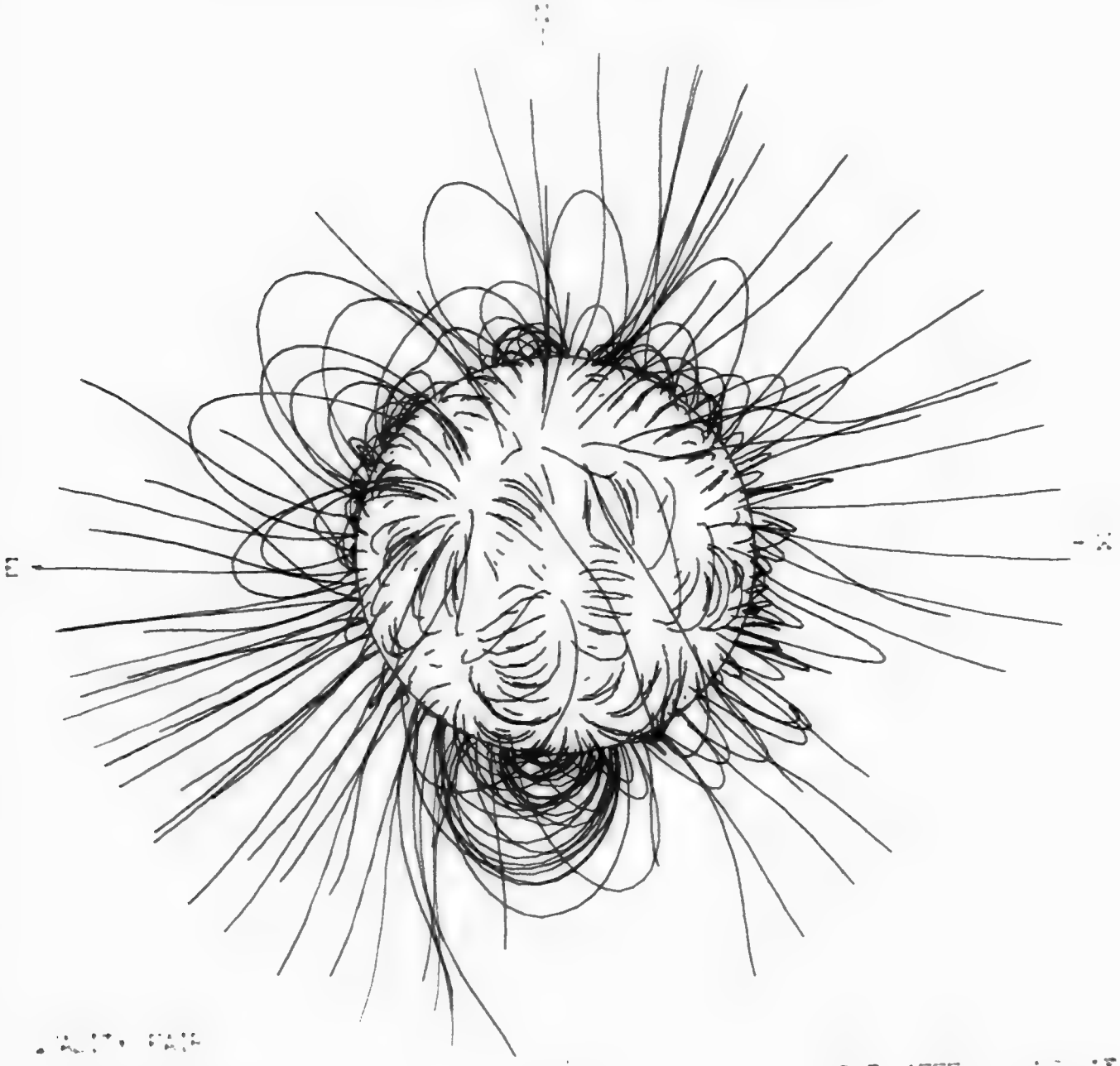
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



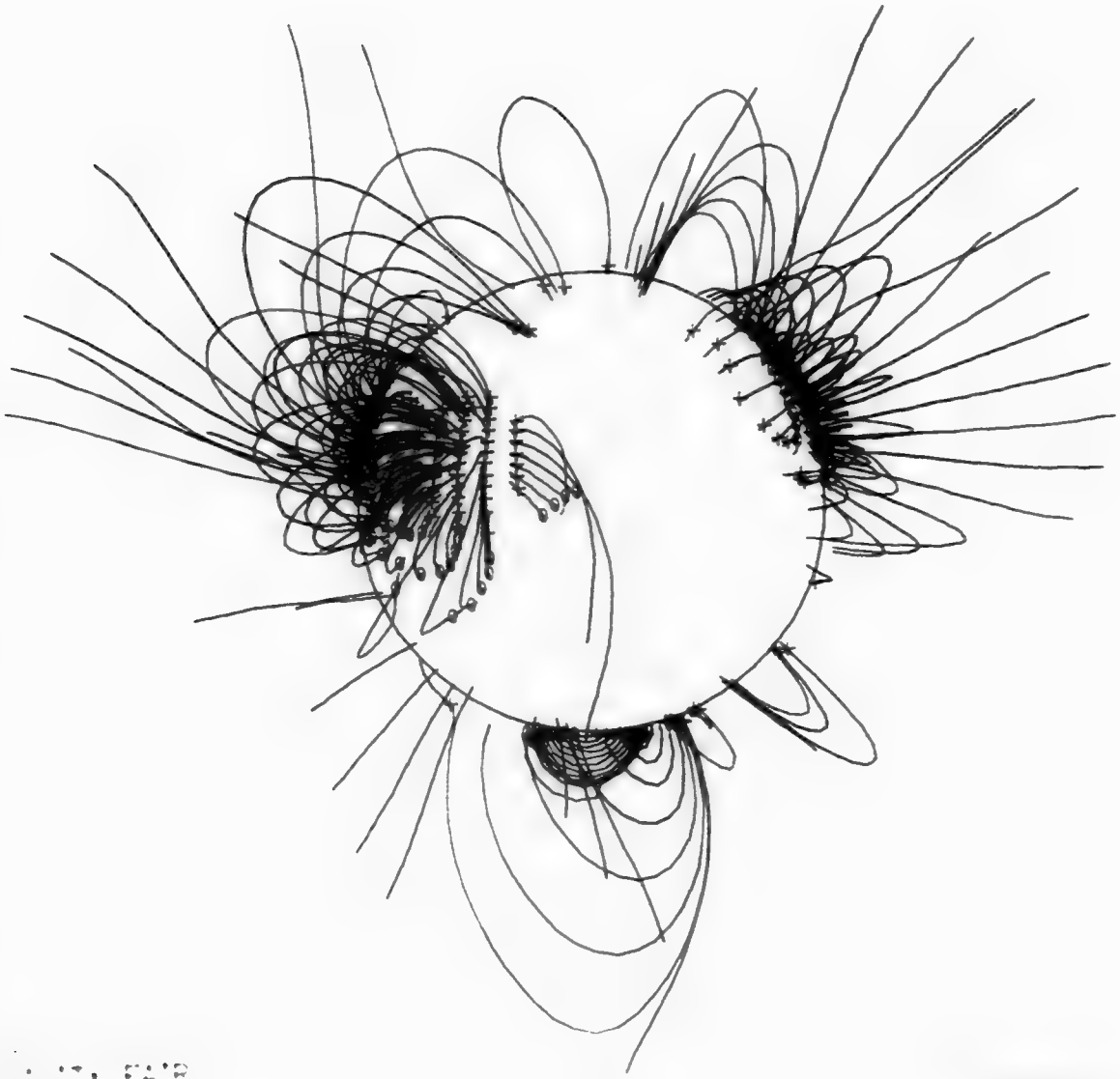
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



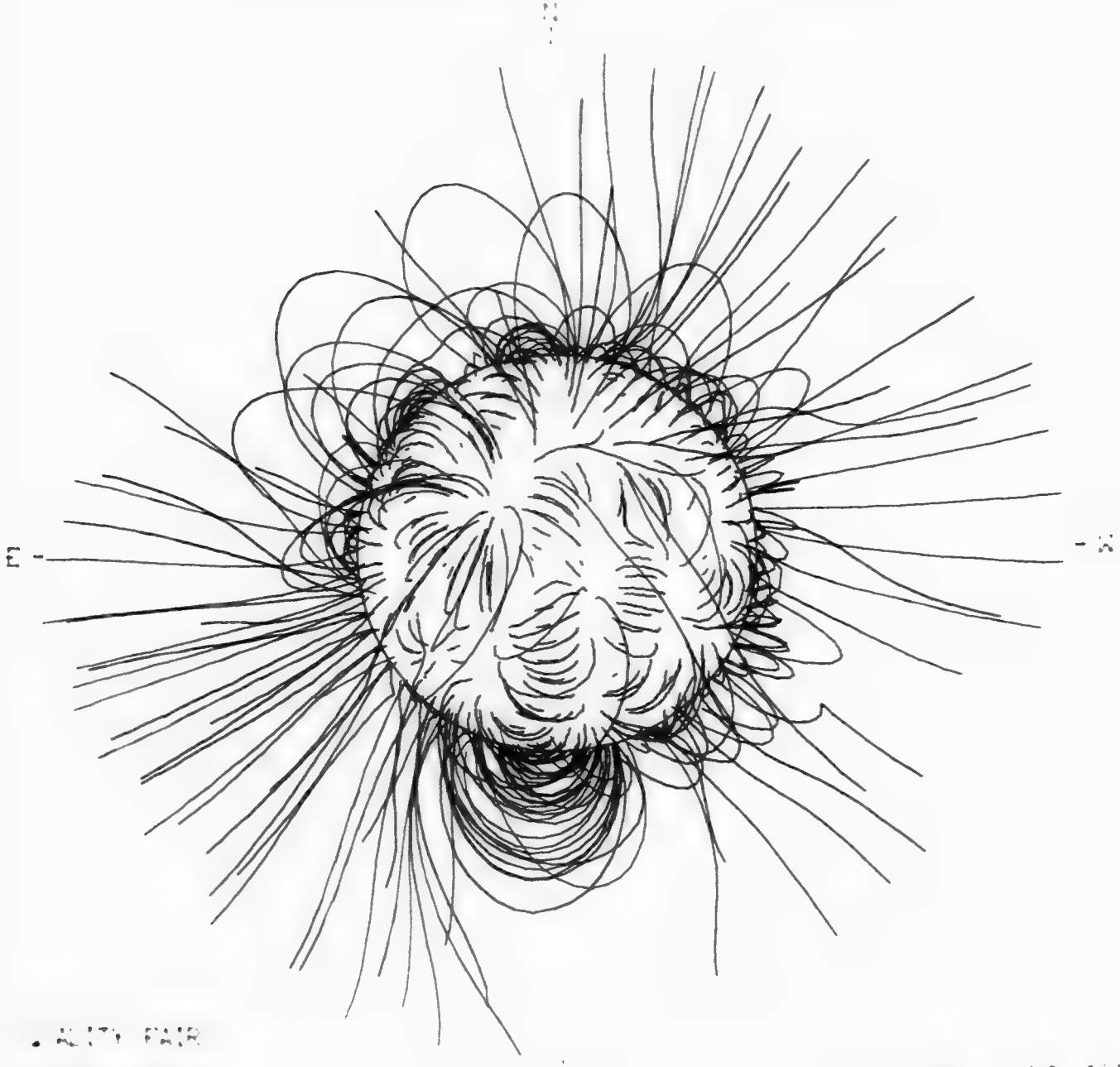
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



• ALITY FAIR

[illegible] DIRECT

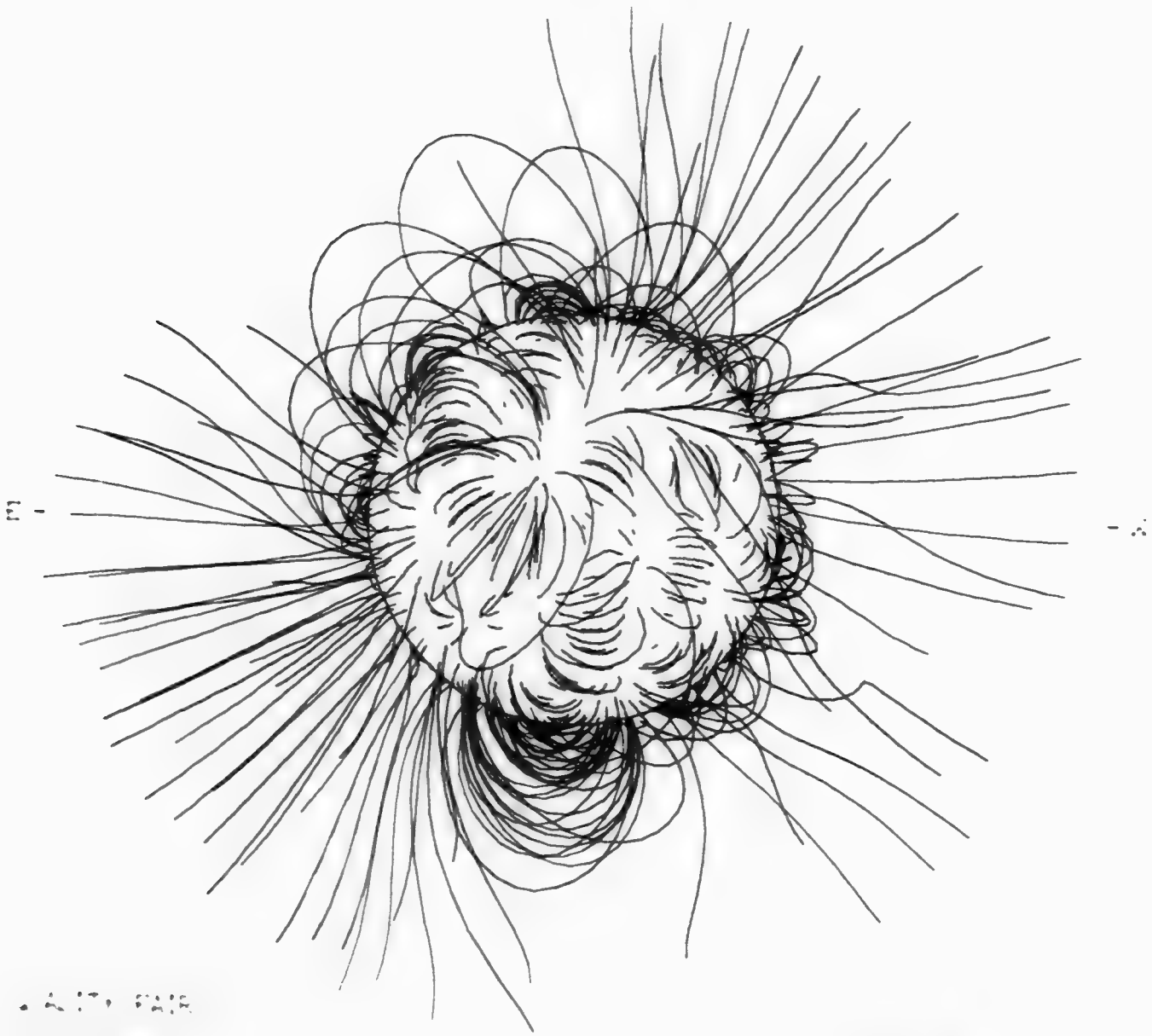
DATA [illegible] 1555.00

ROT. 1555 [illegible]

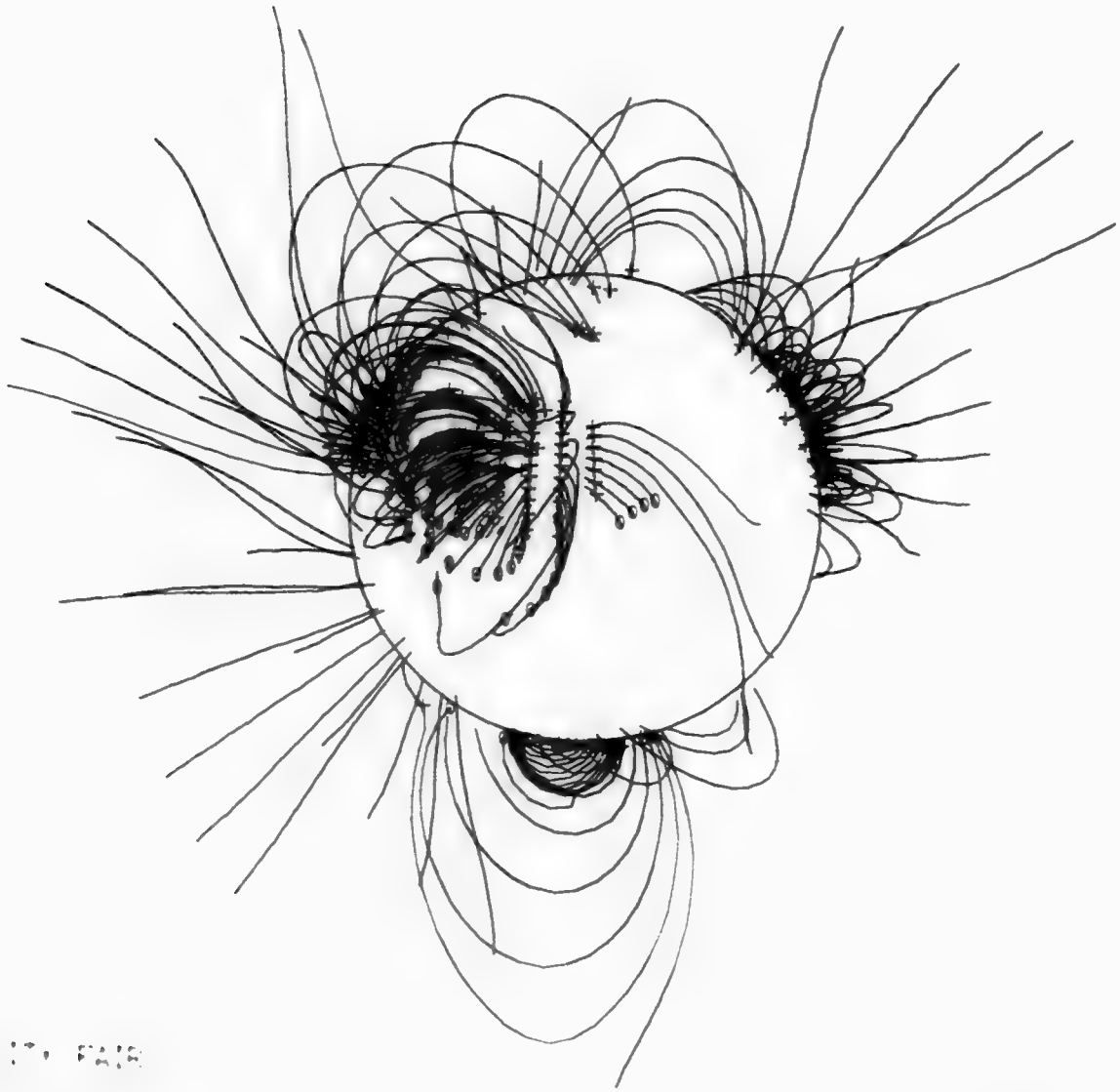
15.8 DEG [illegible]

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

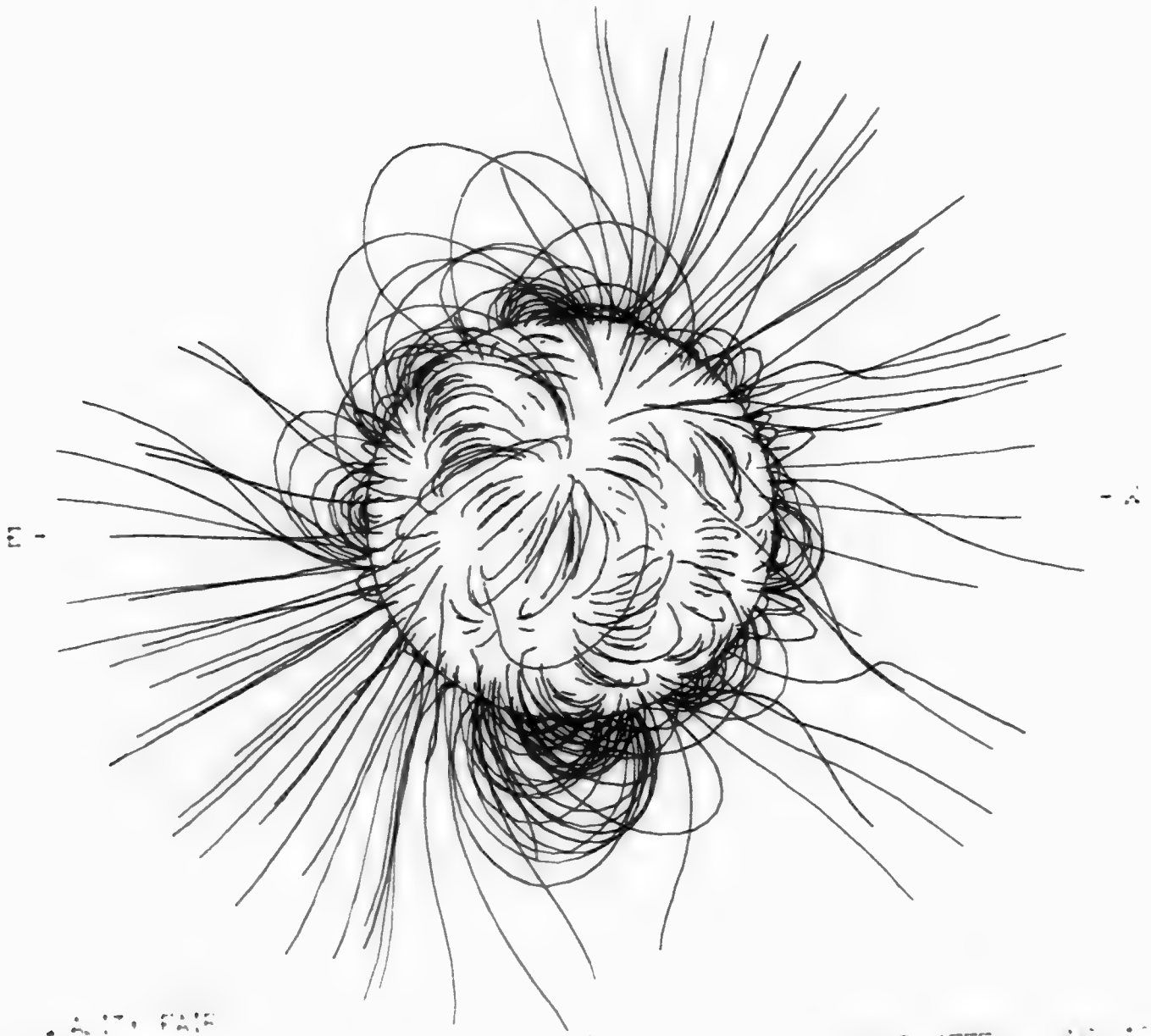
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



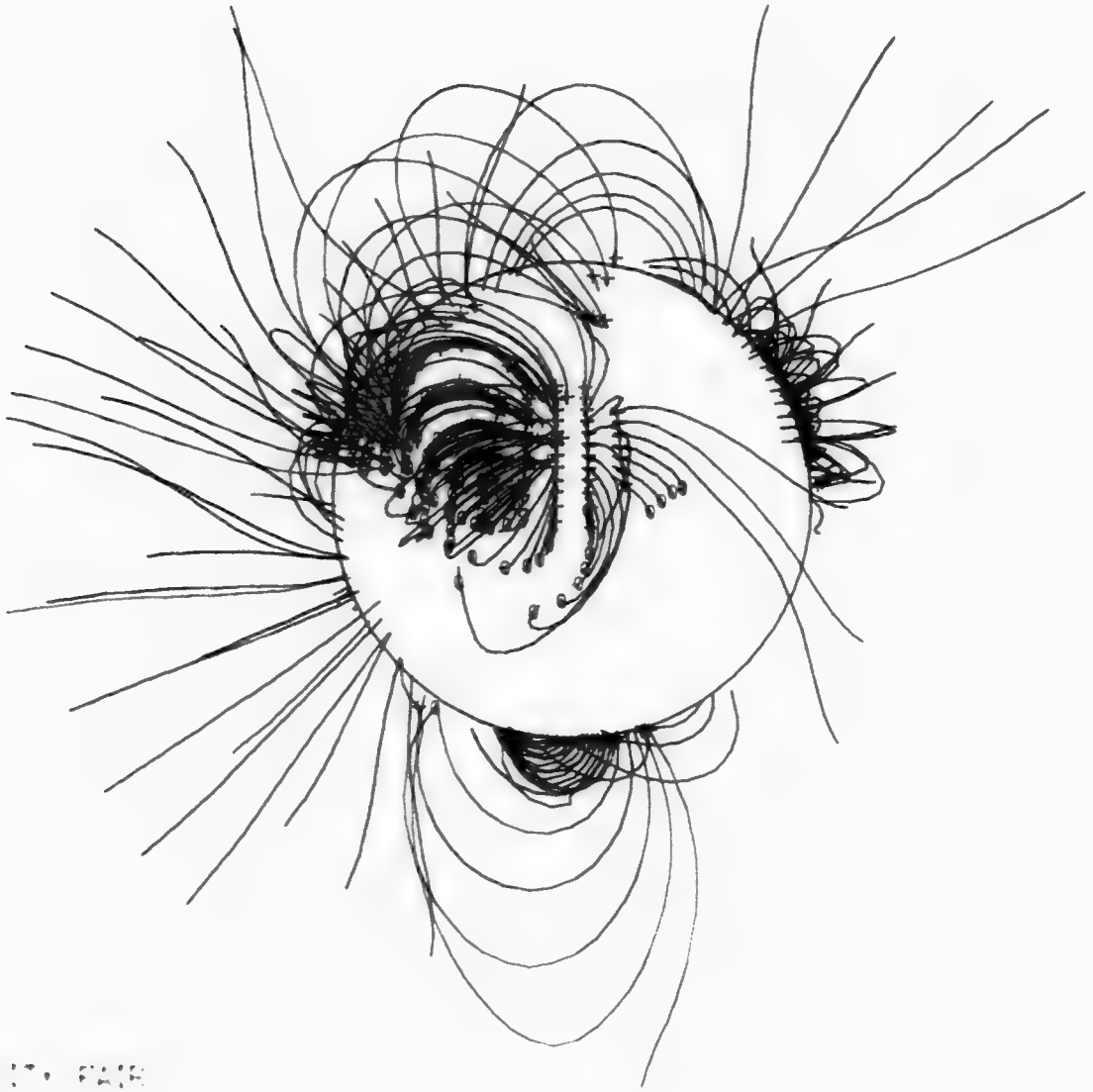
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



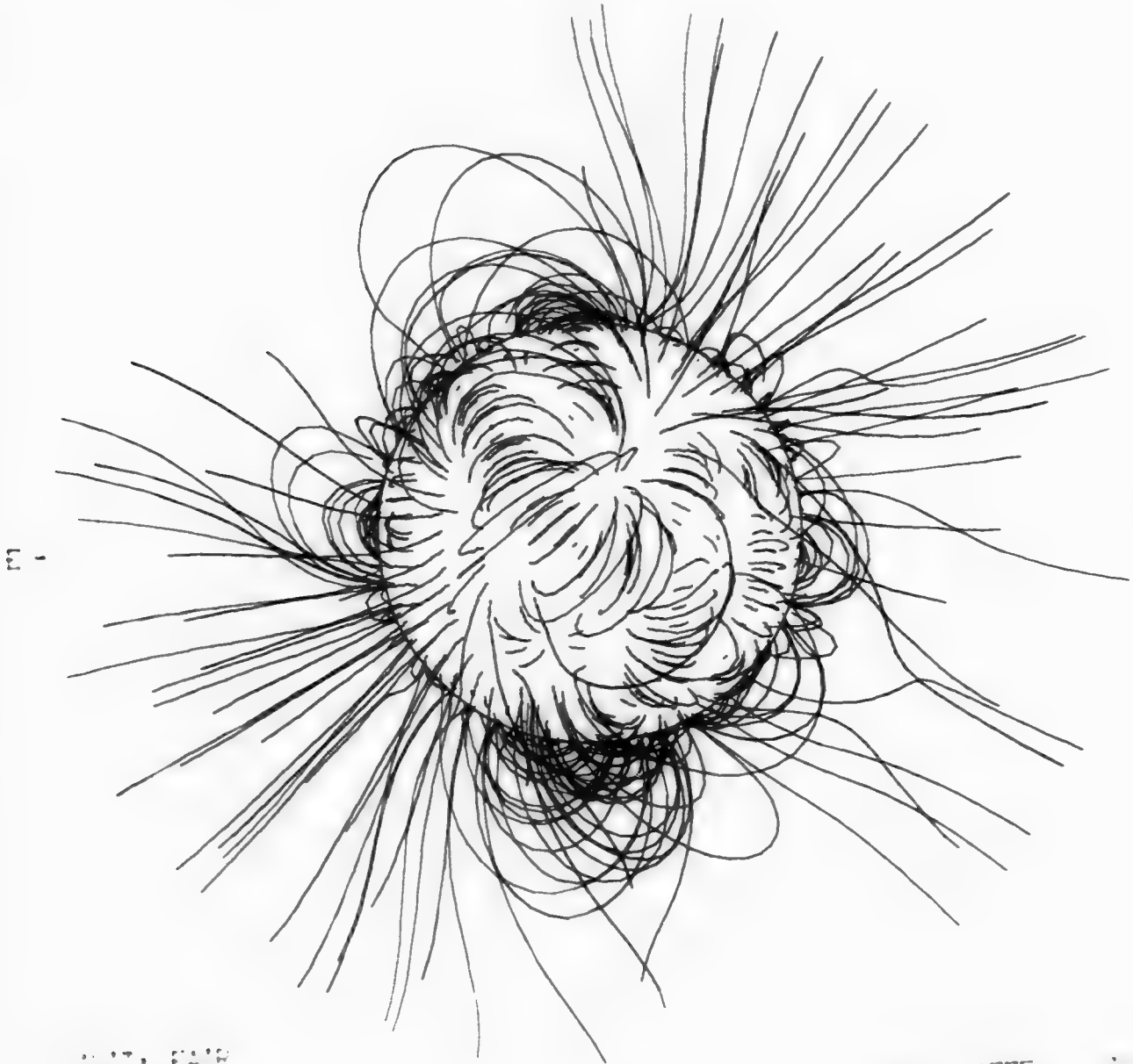
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



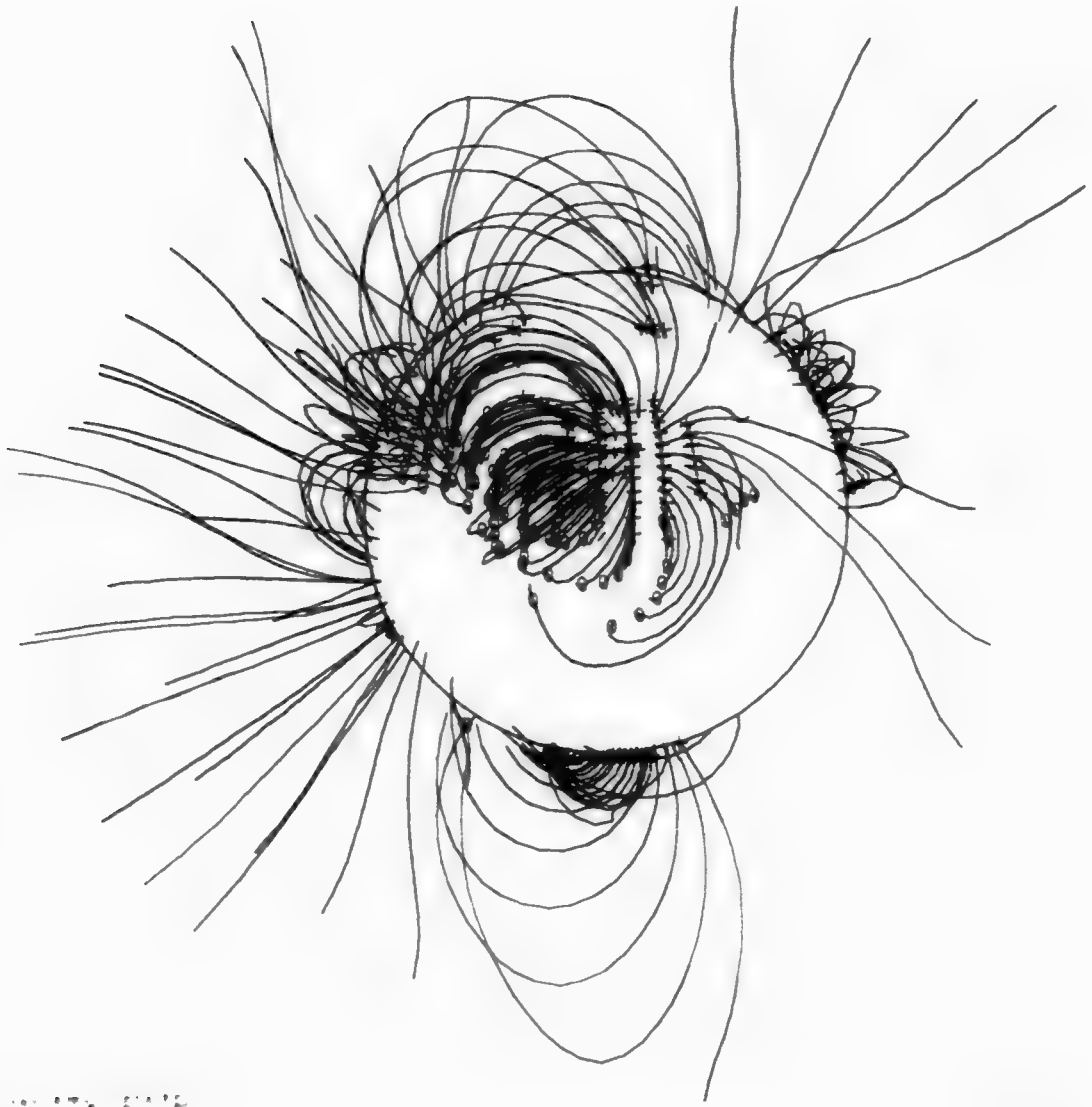
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

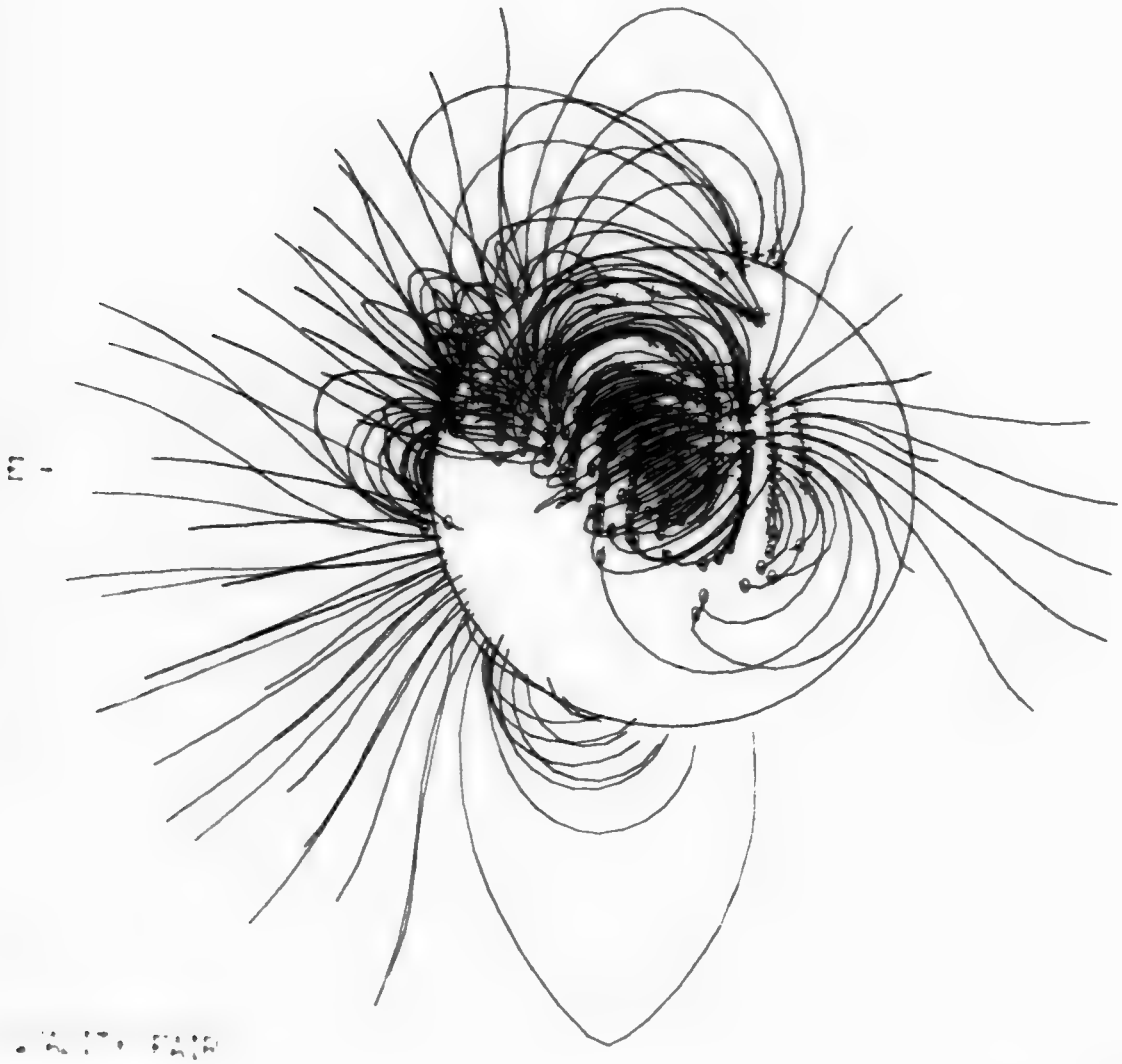


HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



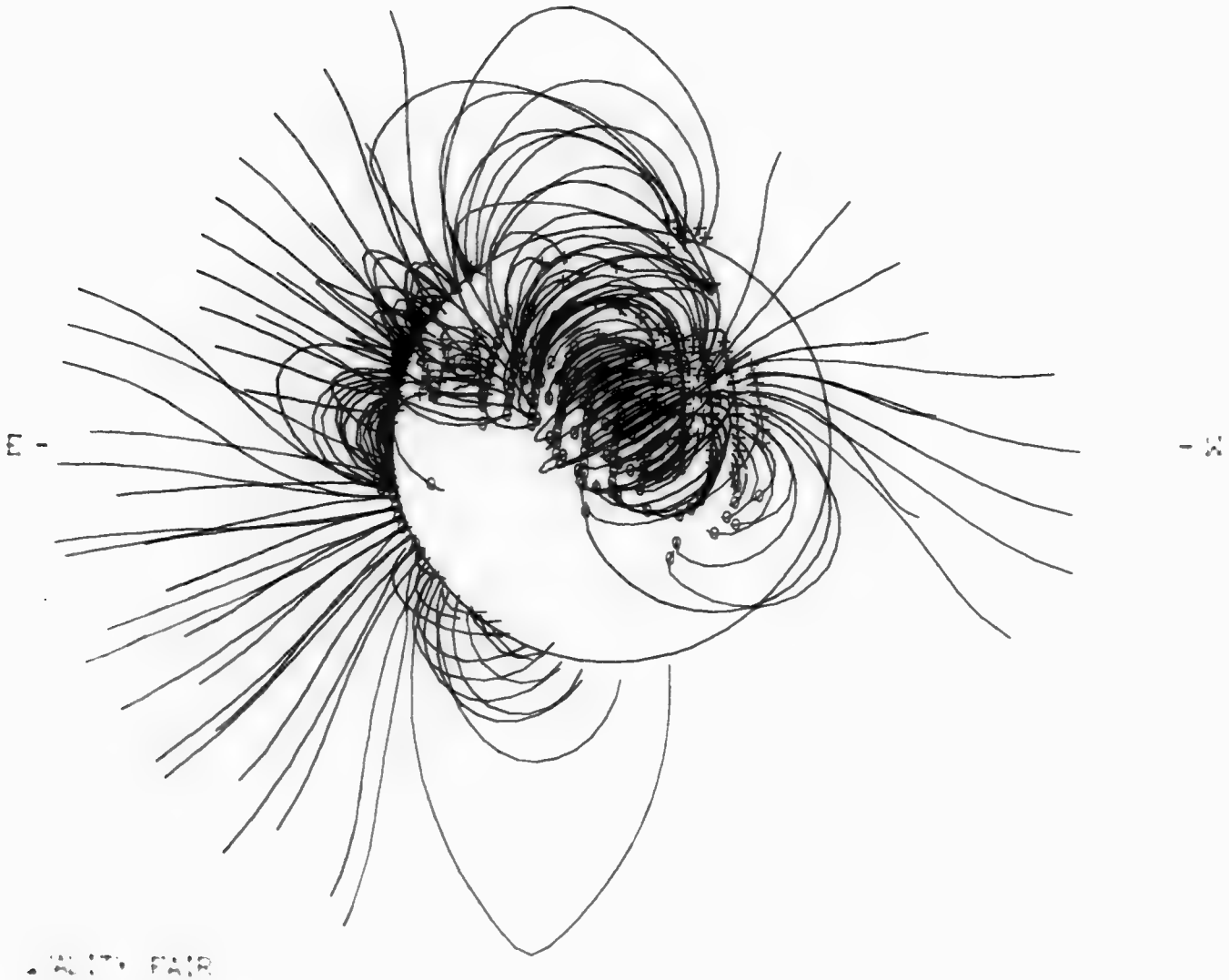
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

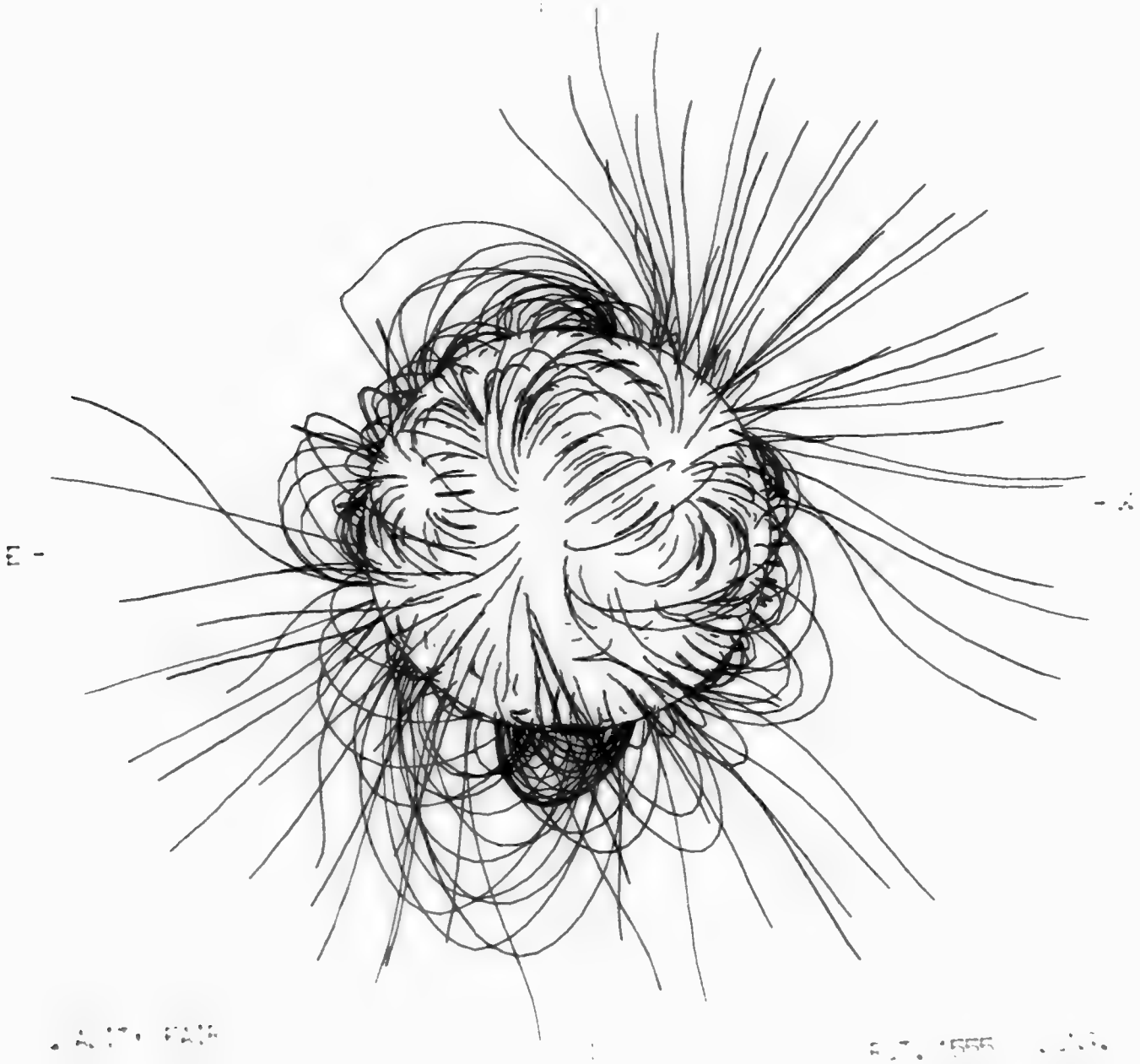


HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

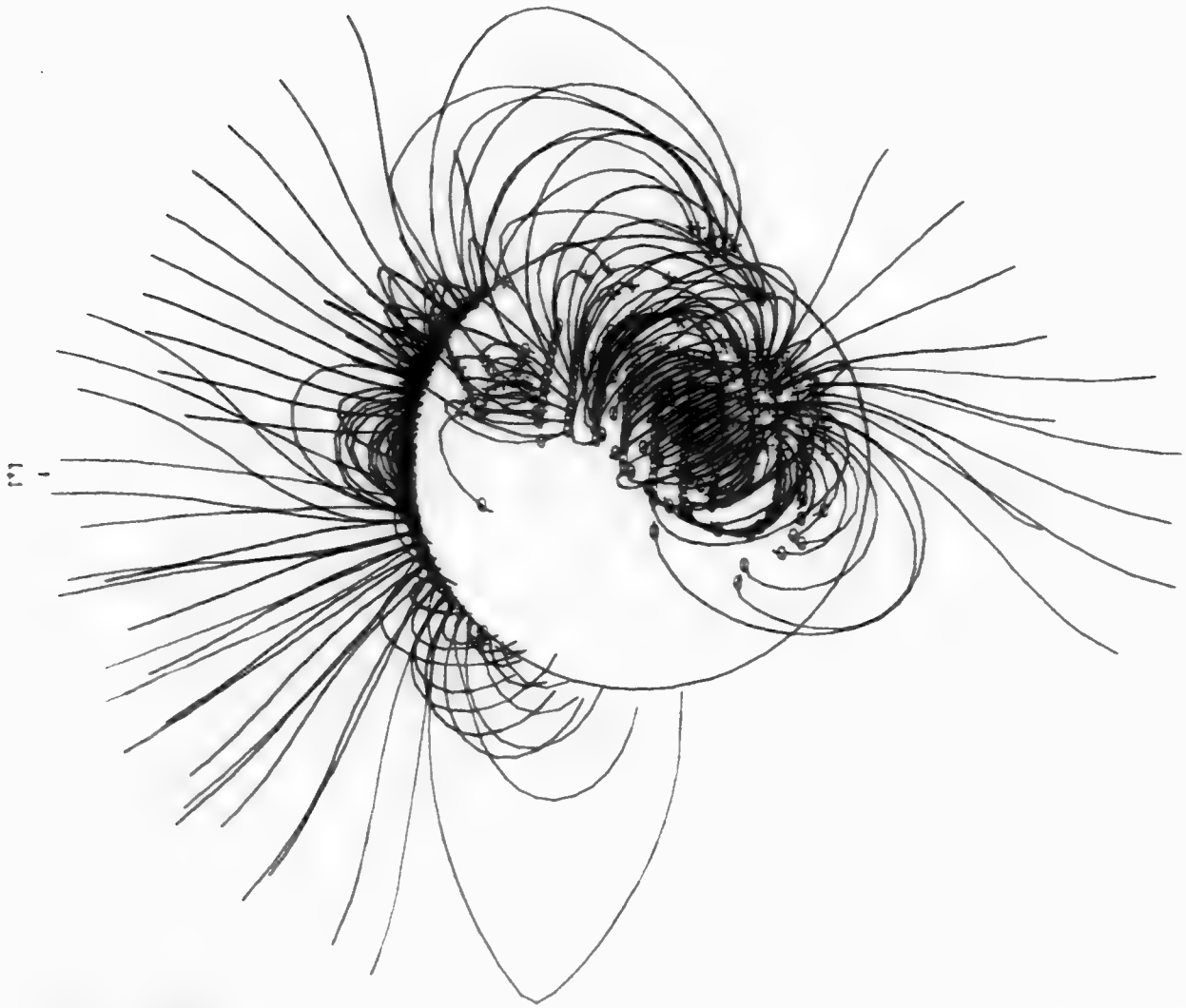
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



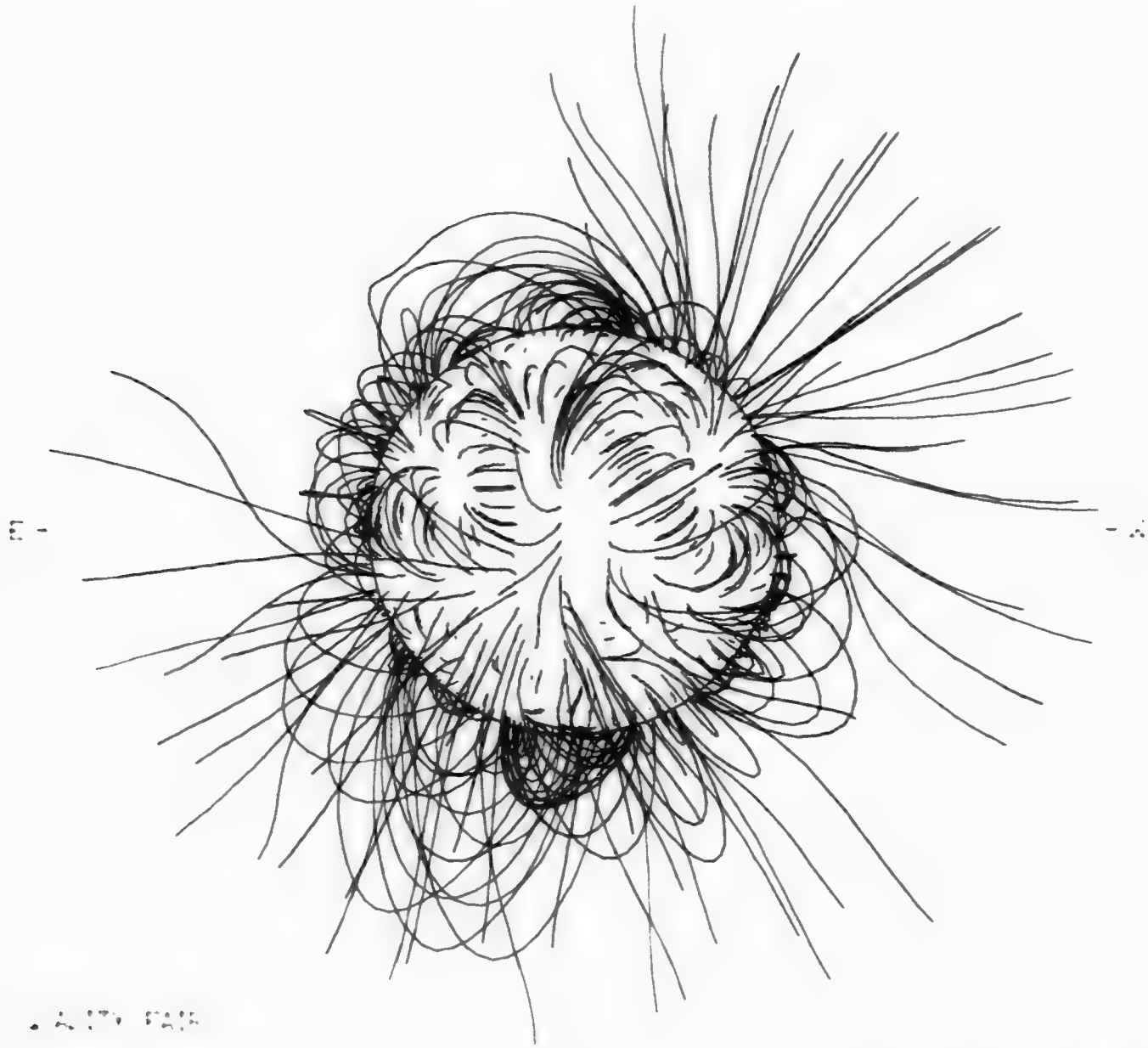
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



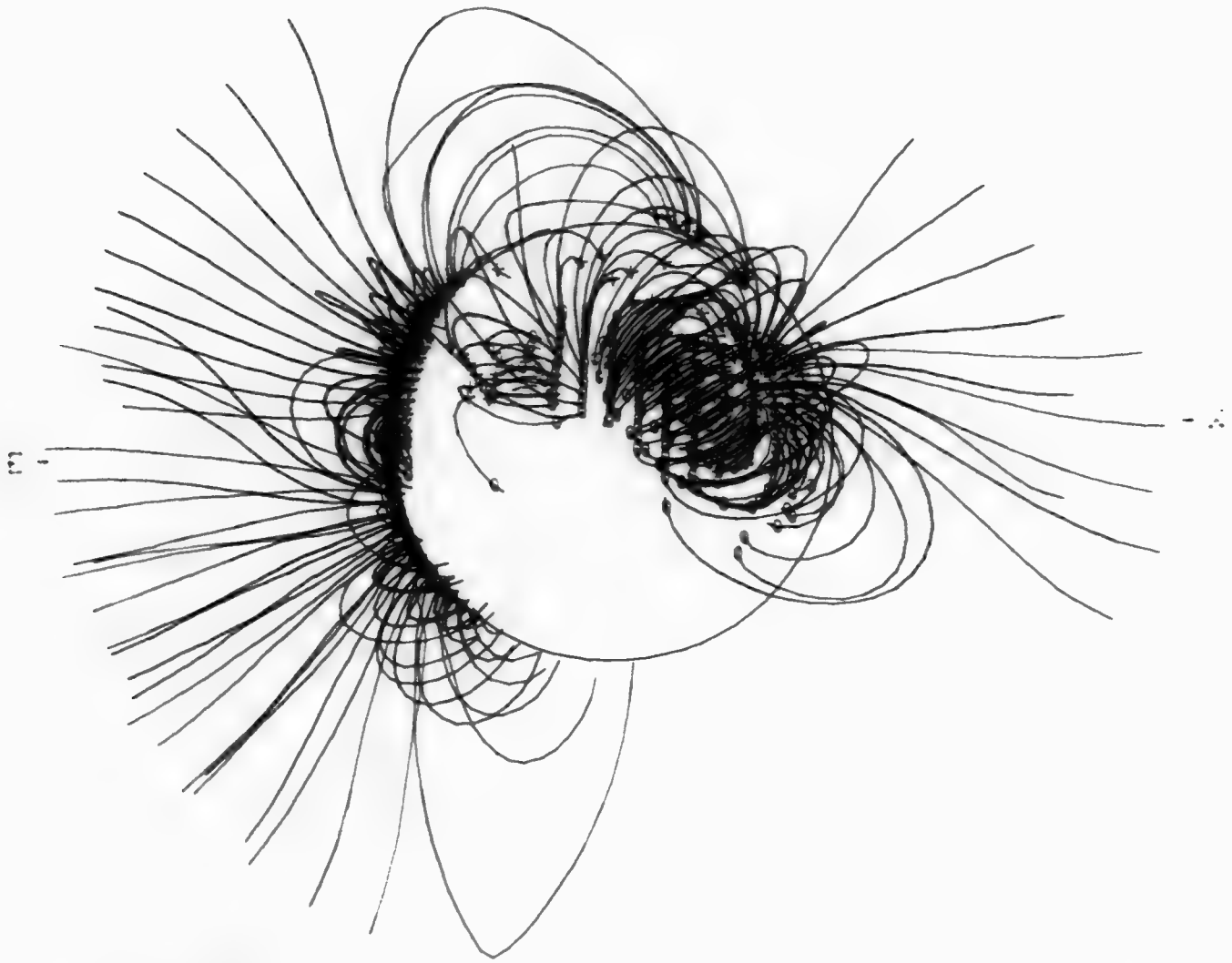
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



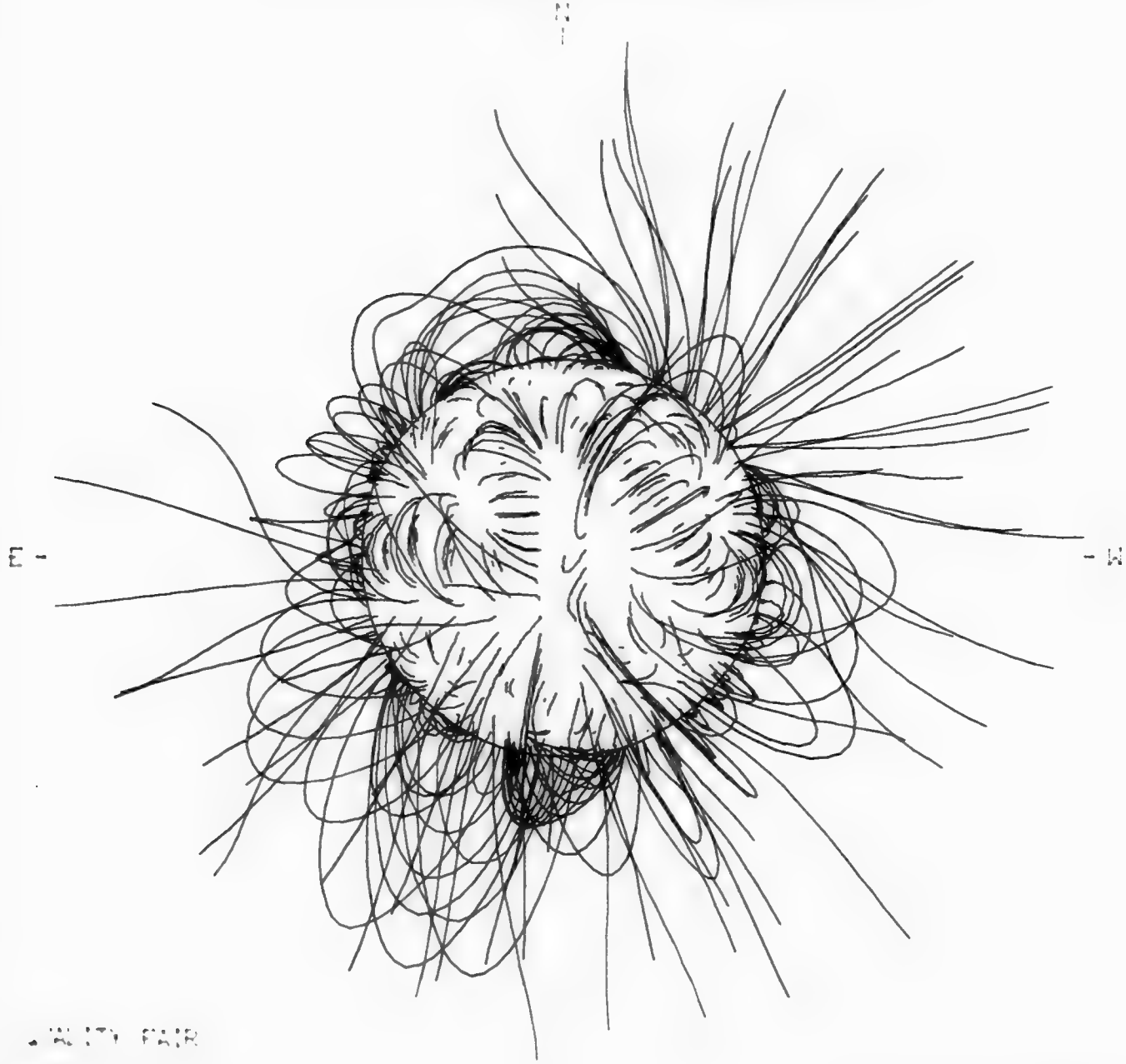
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

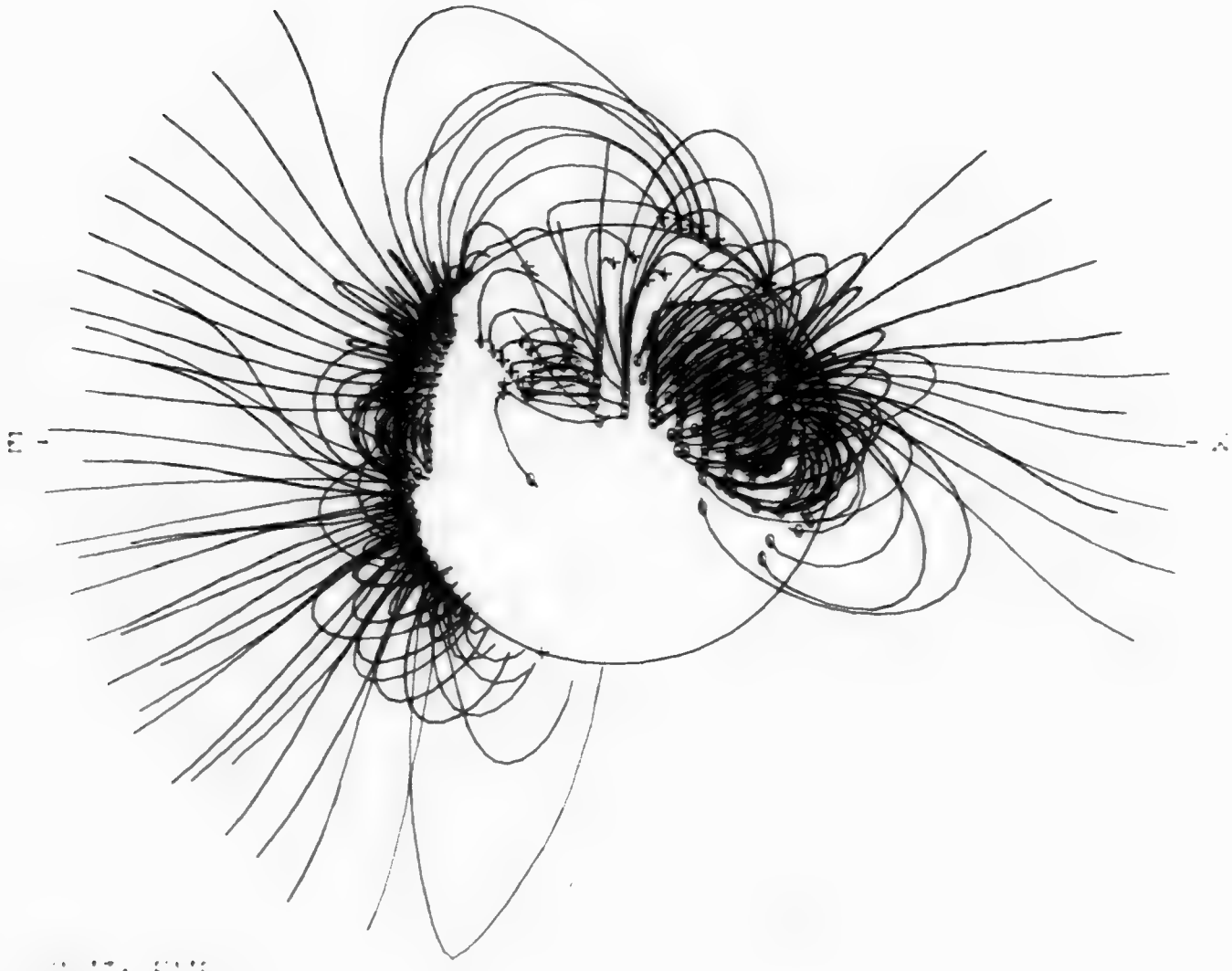


QUALITY FAIR

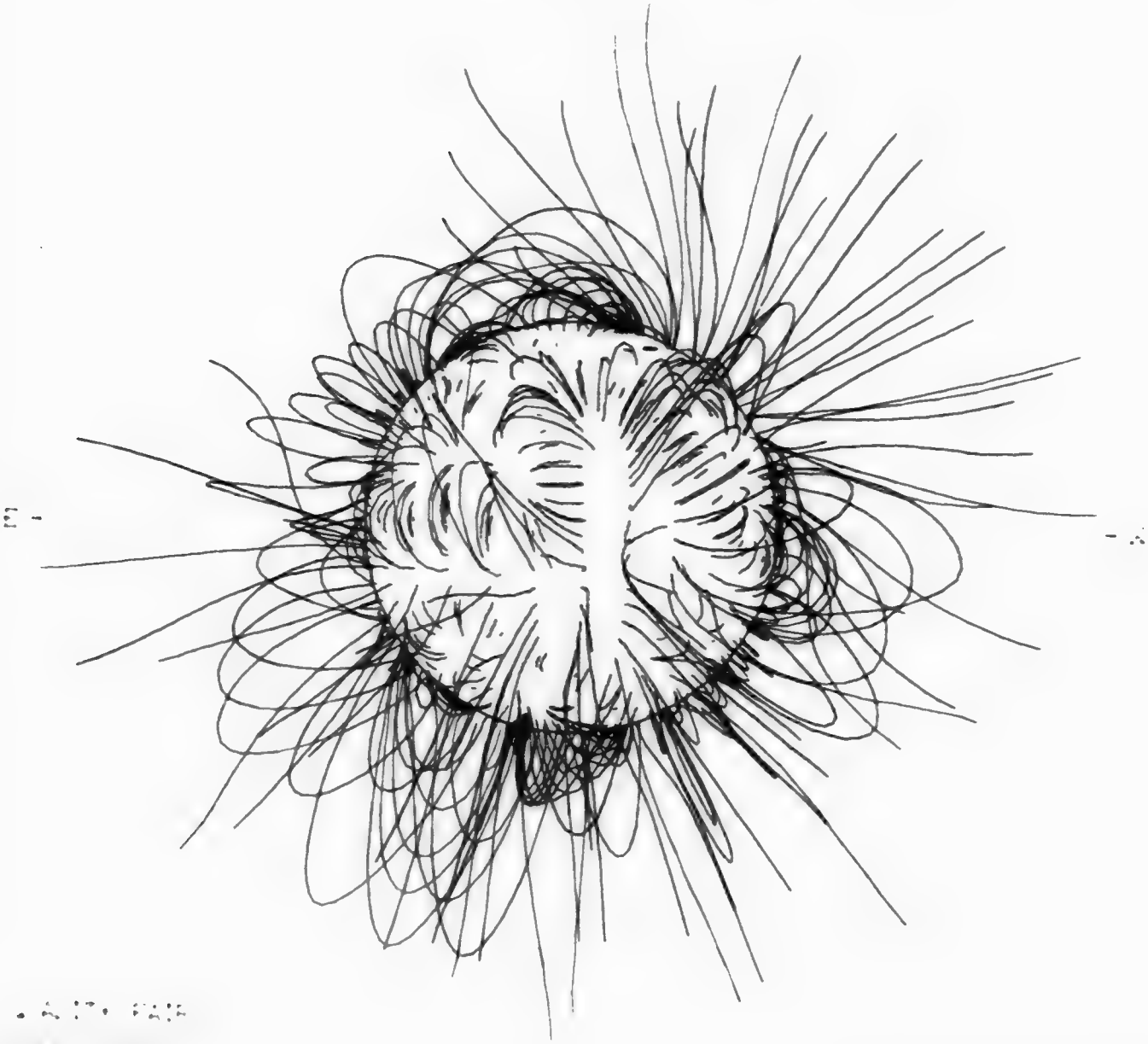
POLES DIRECT

ROT. 1555 LONG. 40°

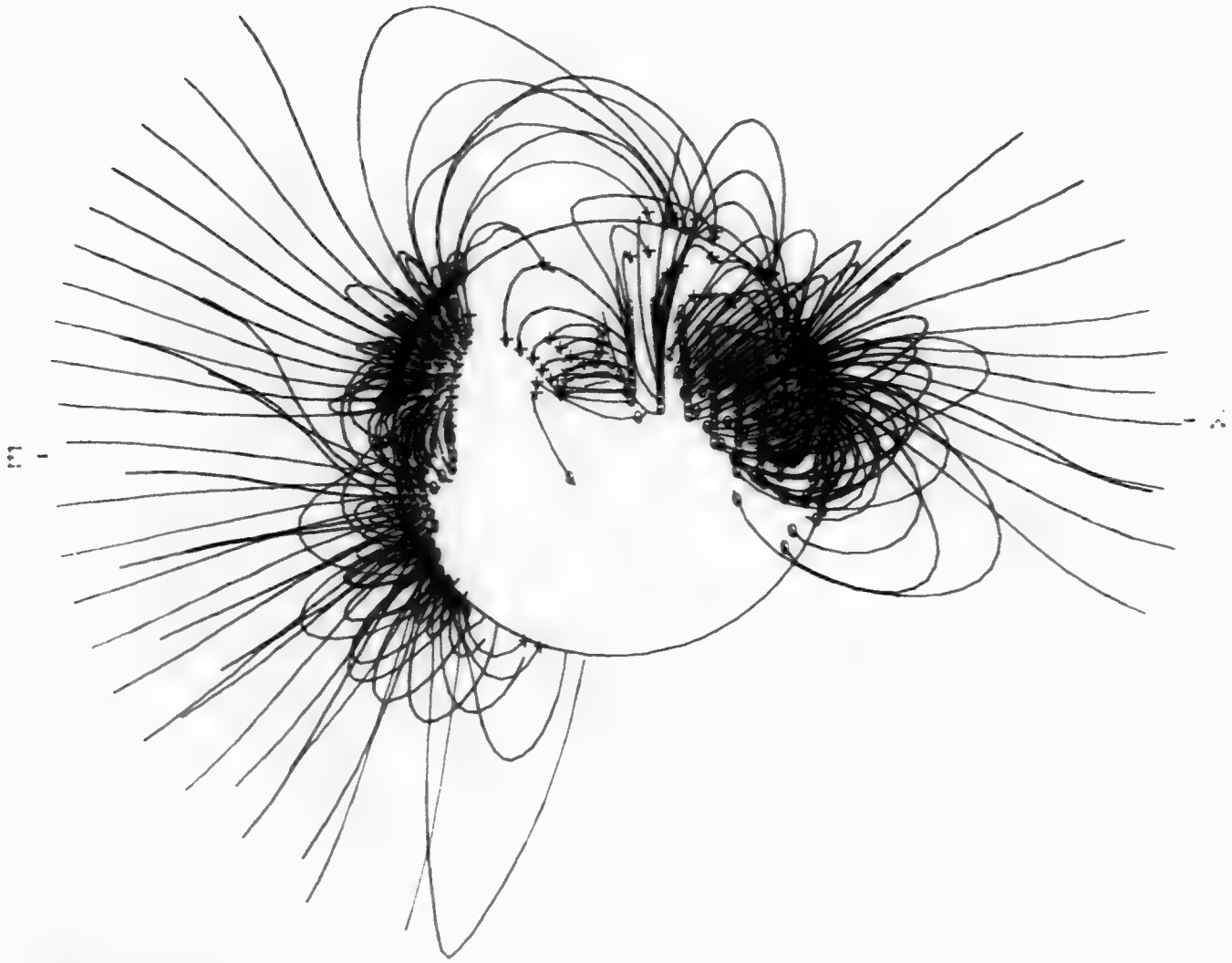
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



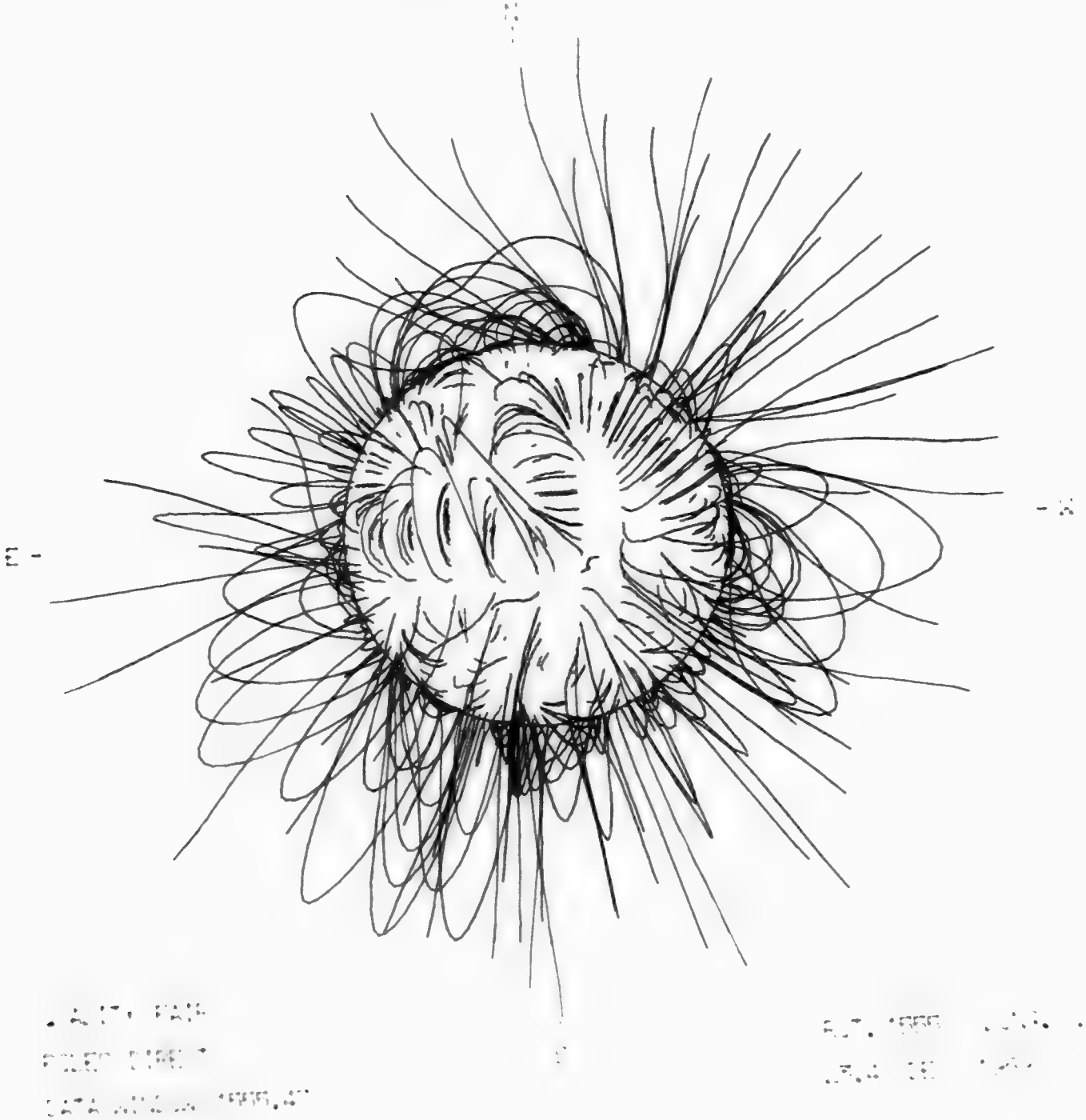
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



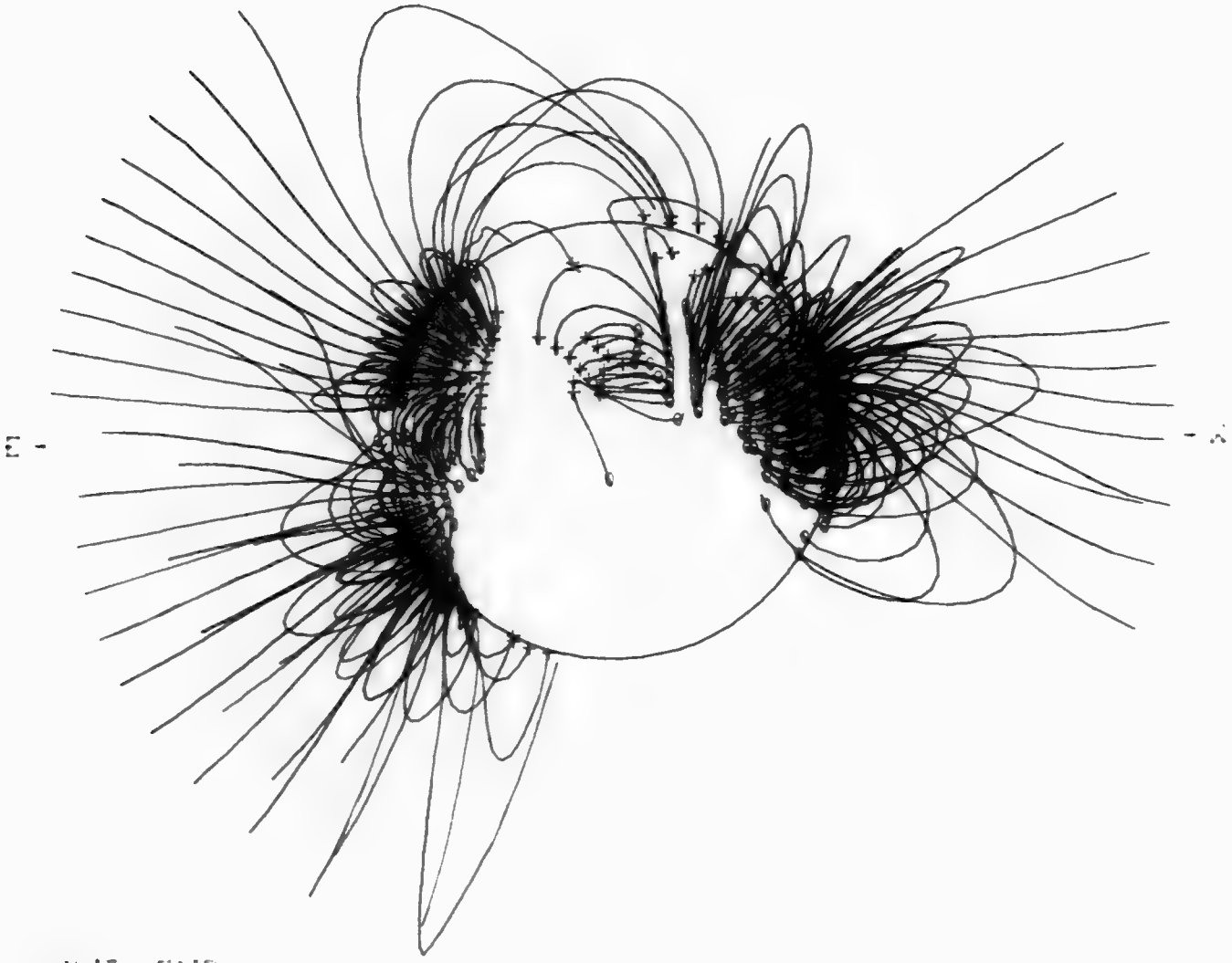
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



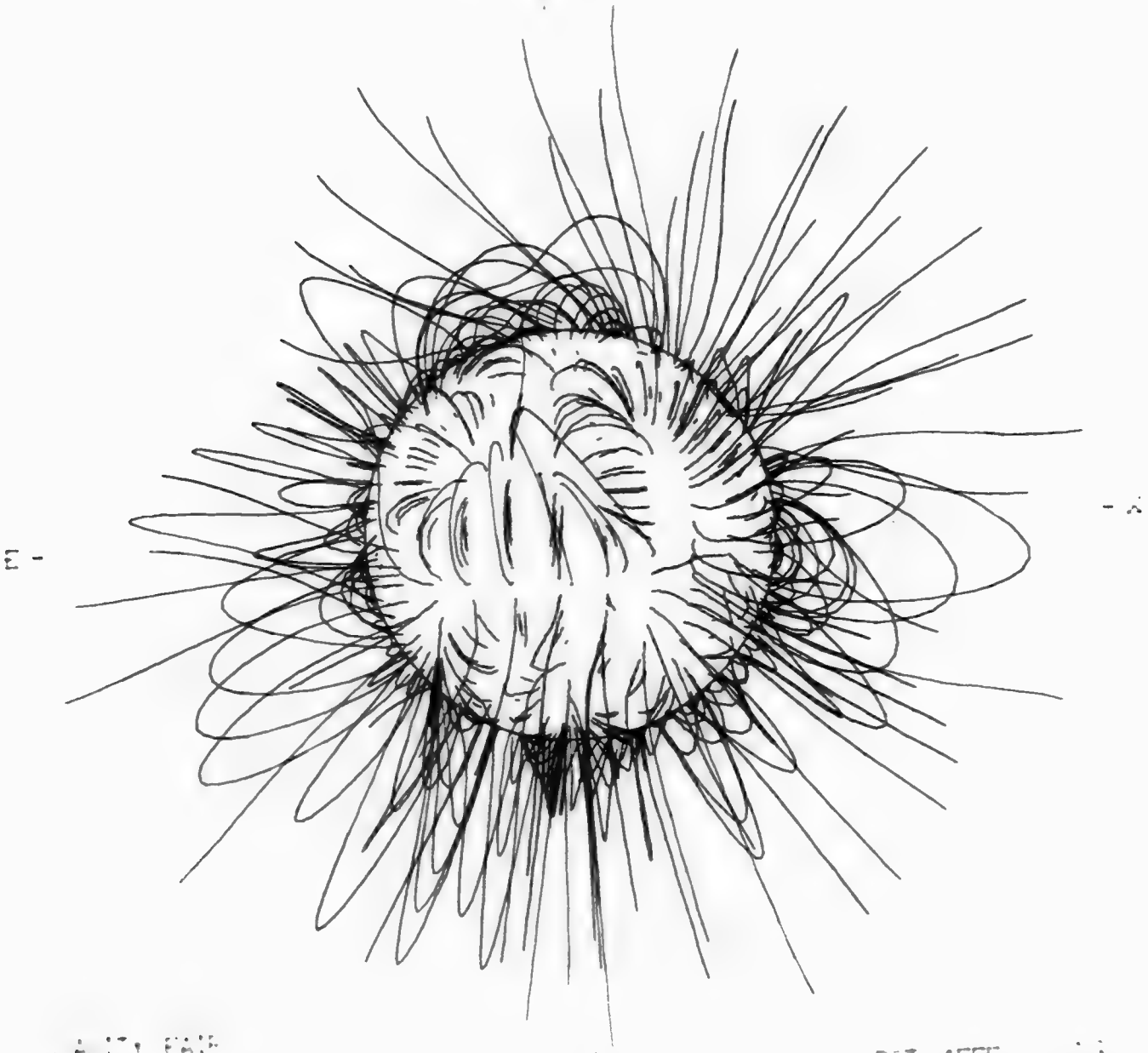
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



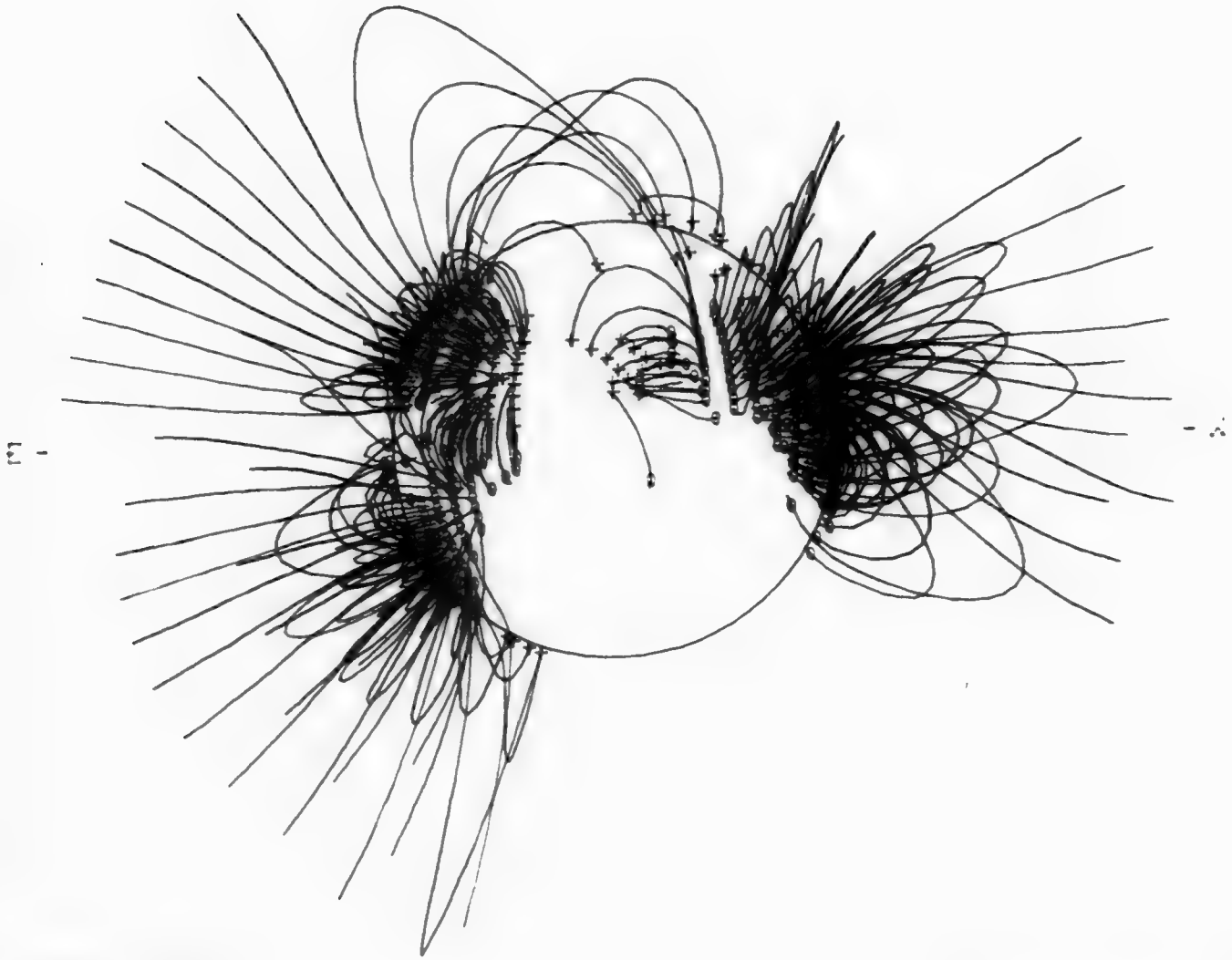
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



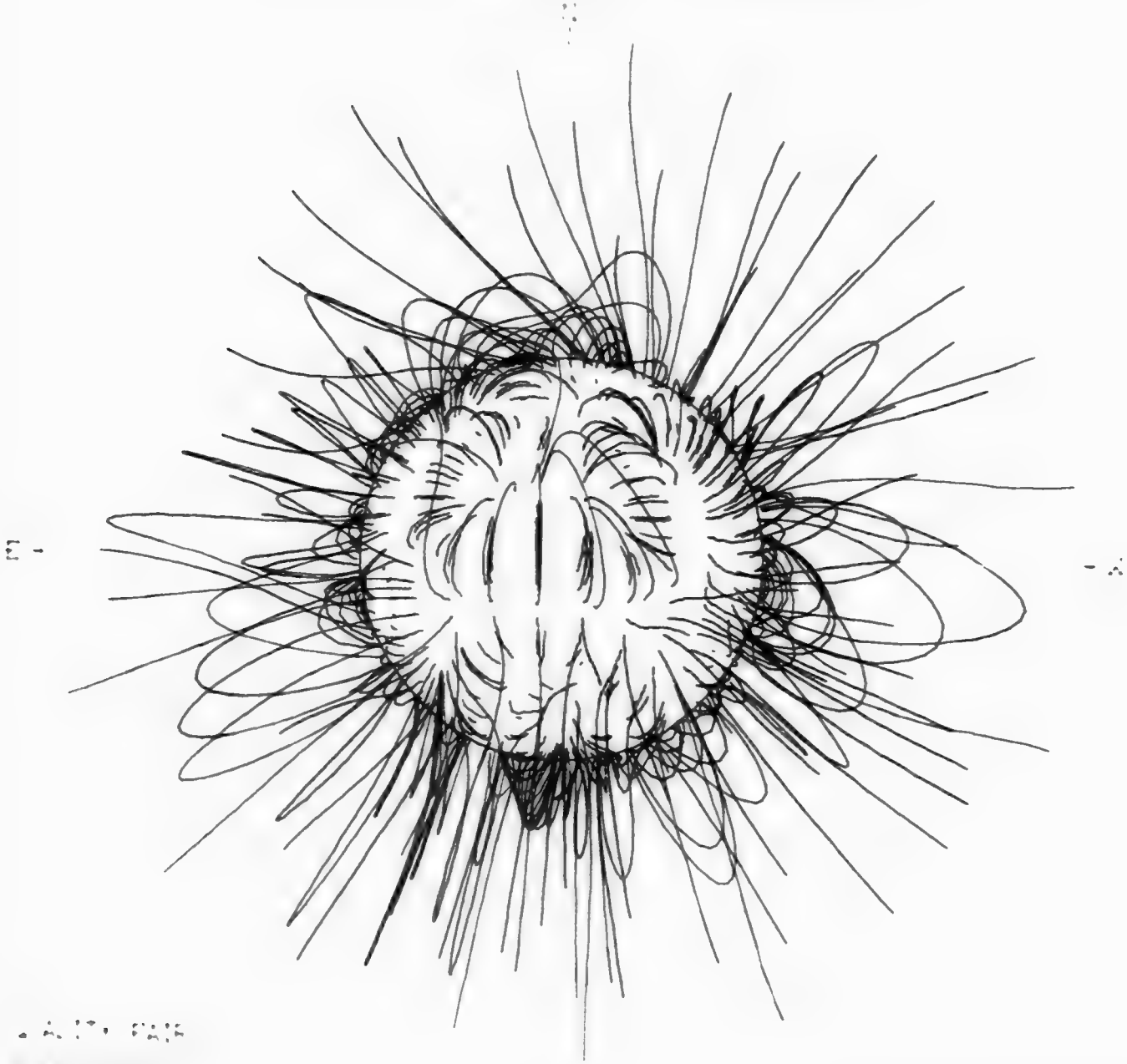
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



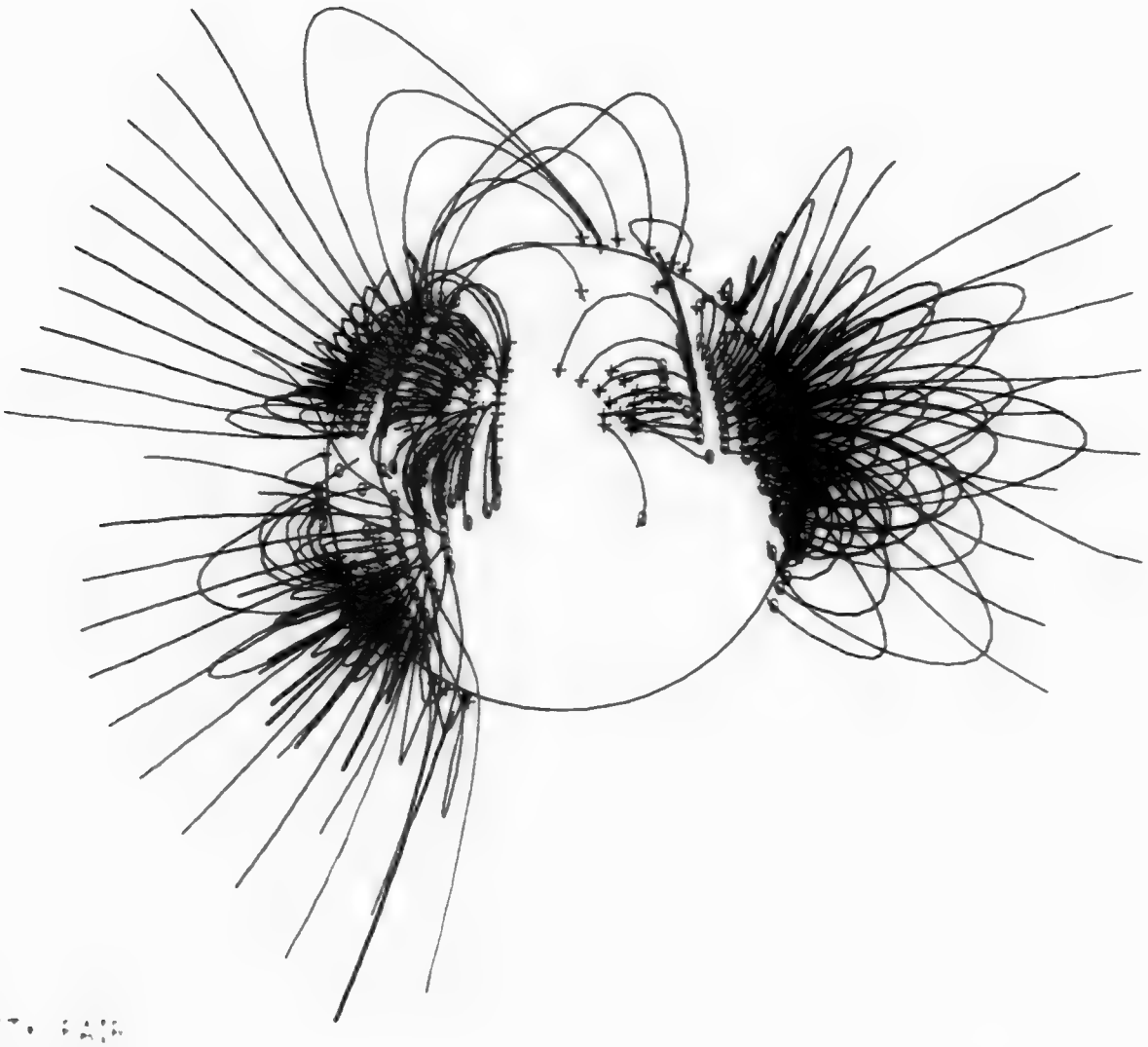
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



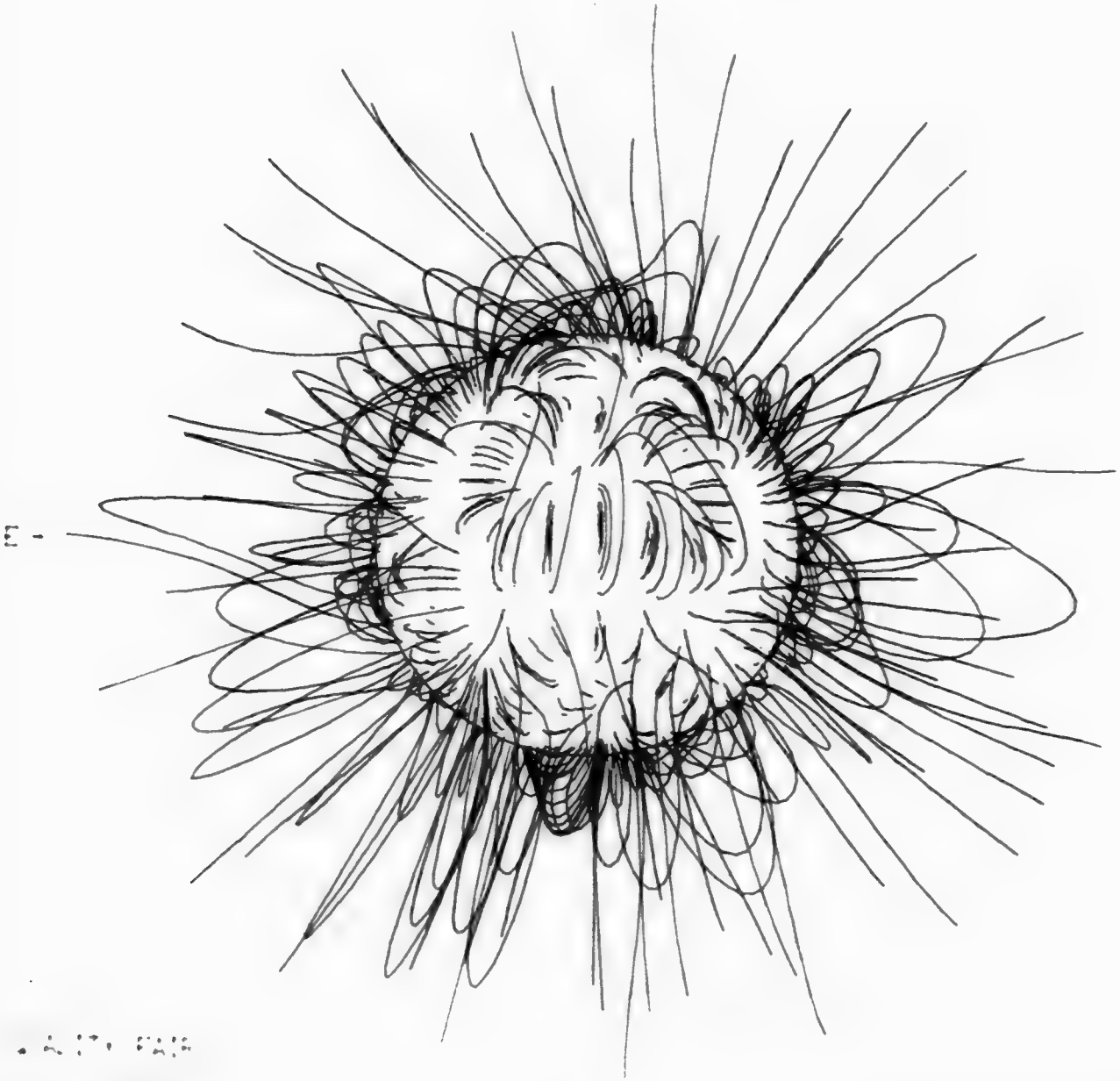
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



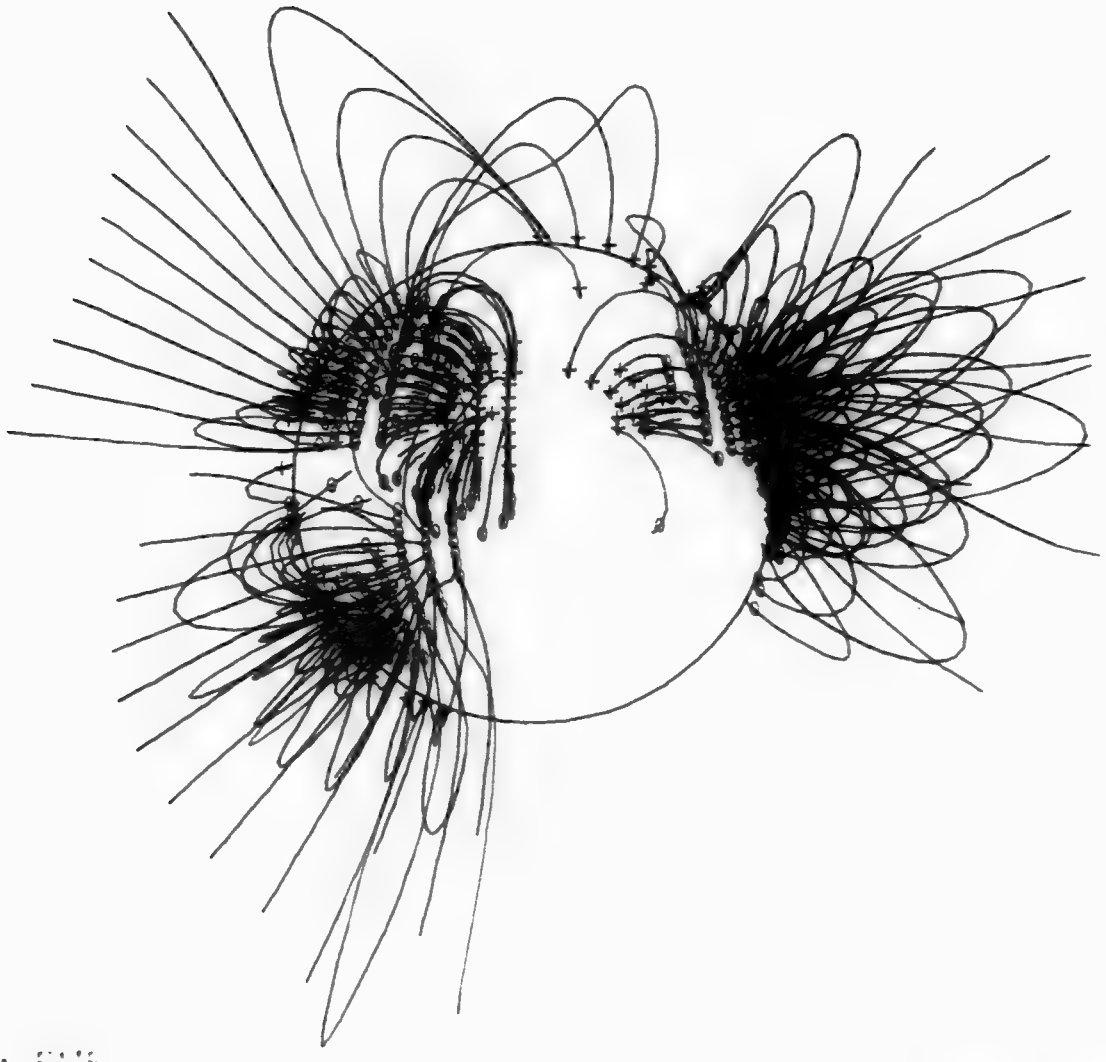
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



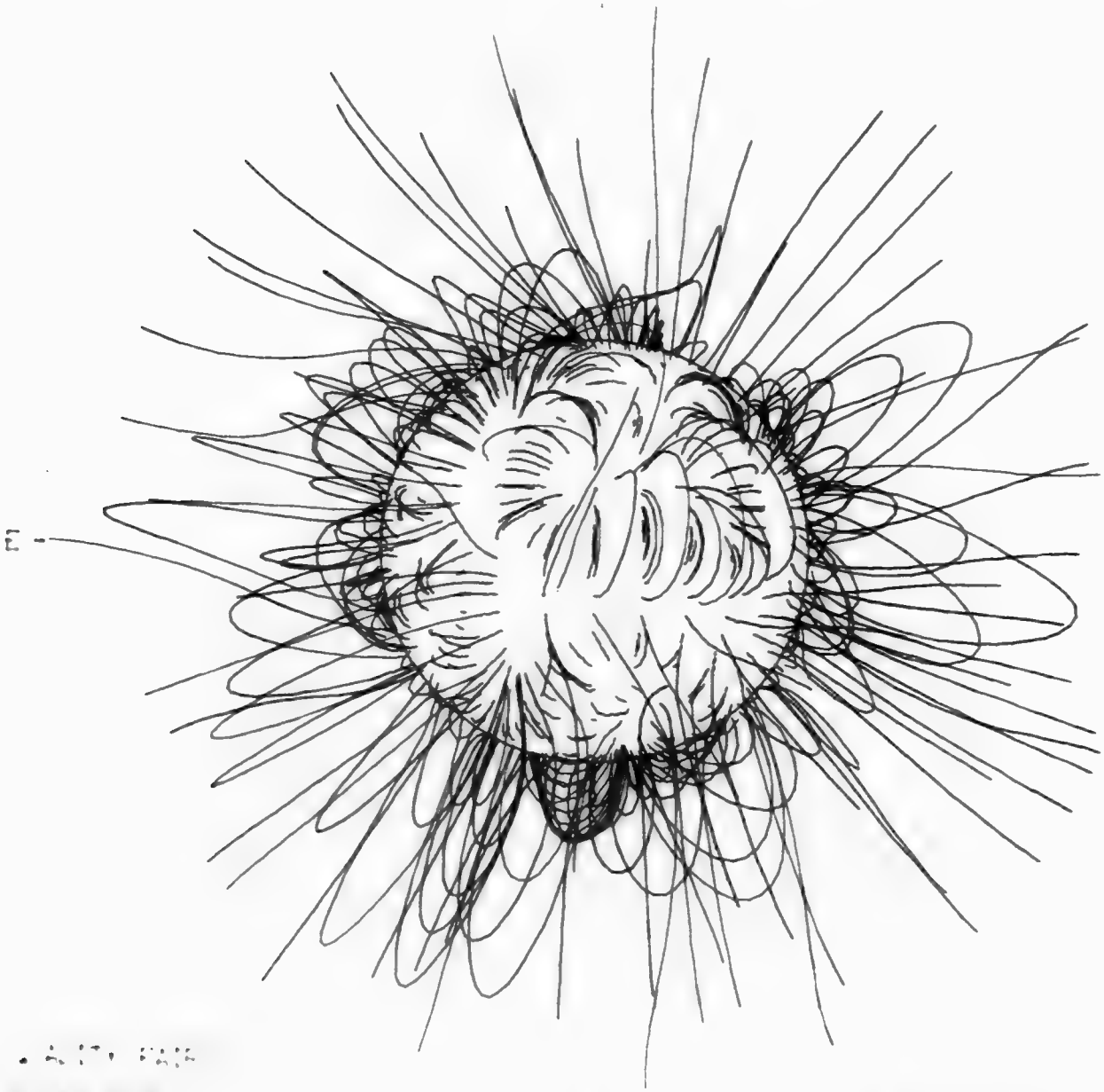
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



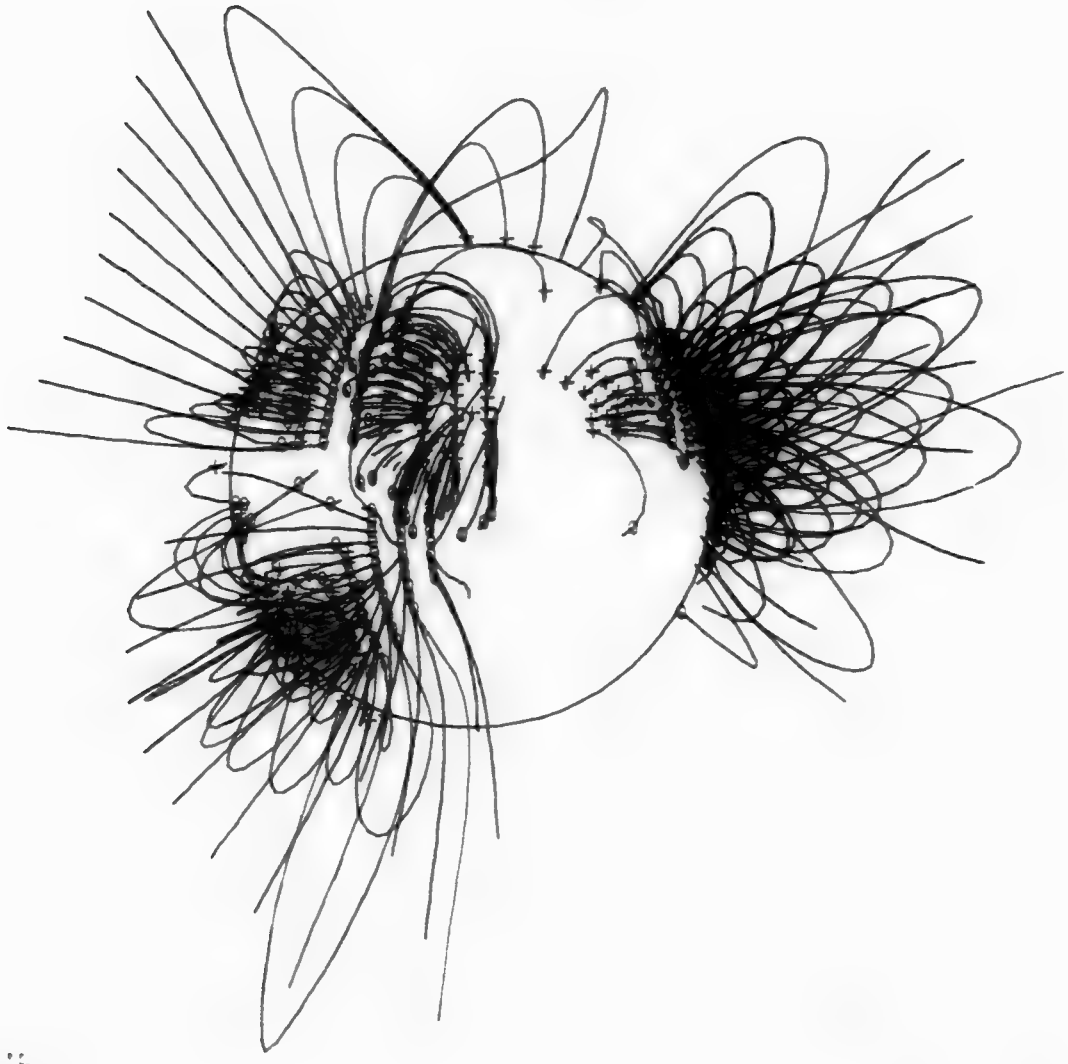
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



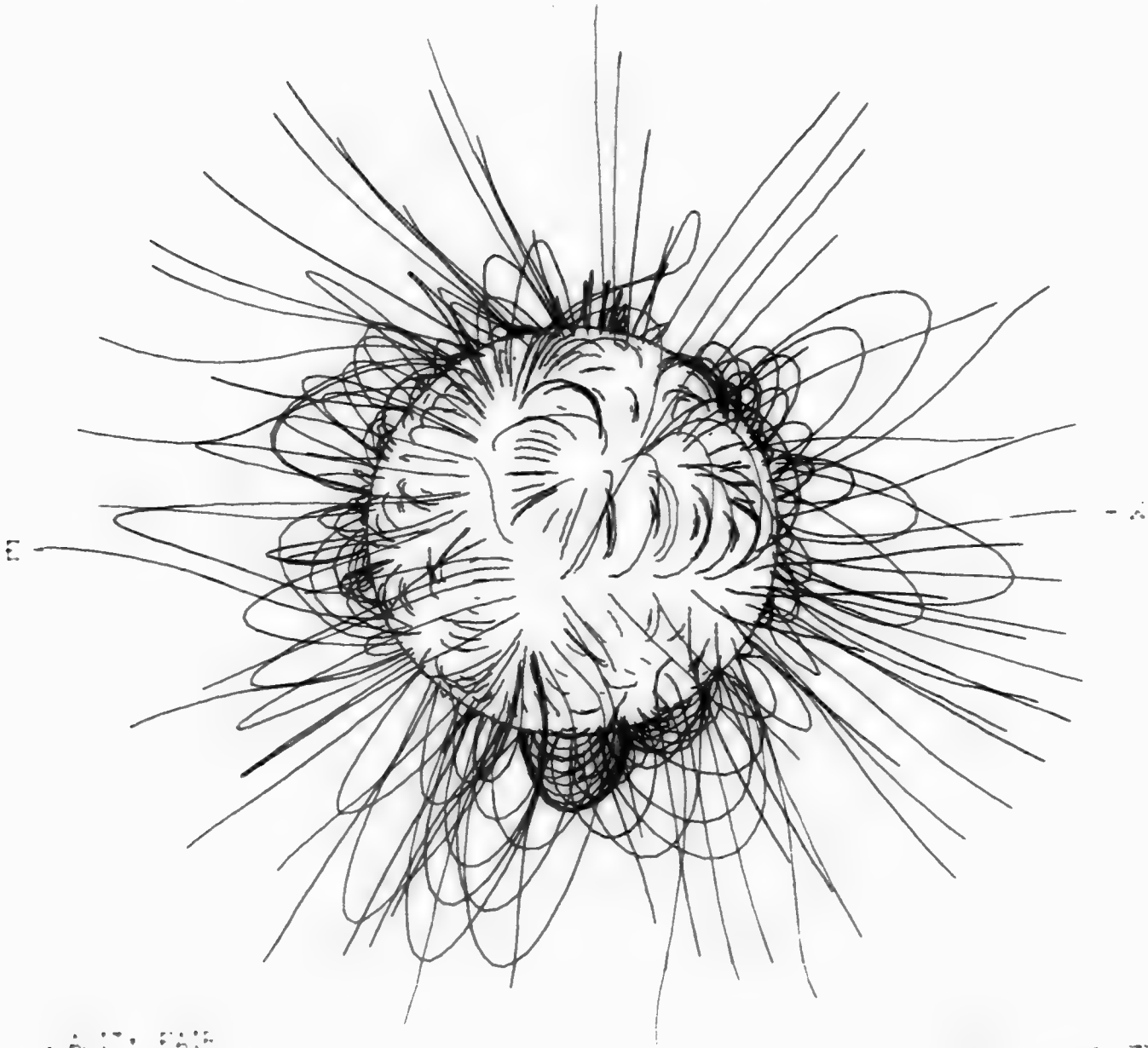
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



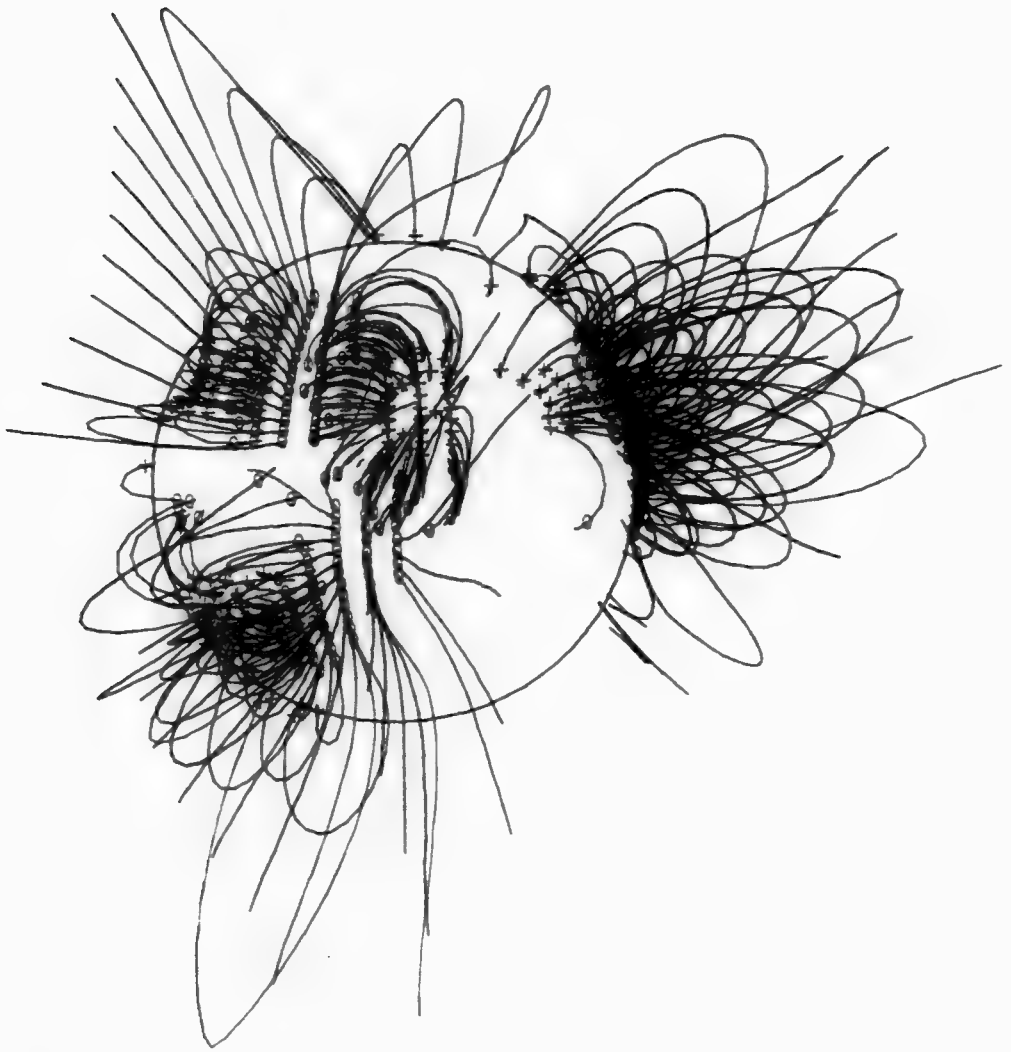
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



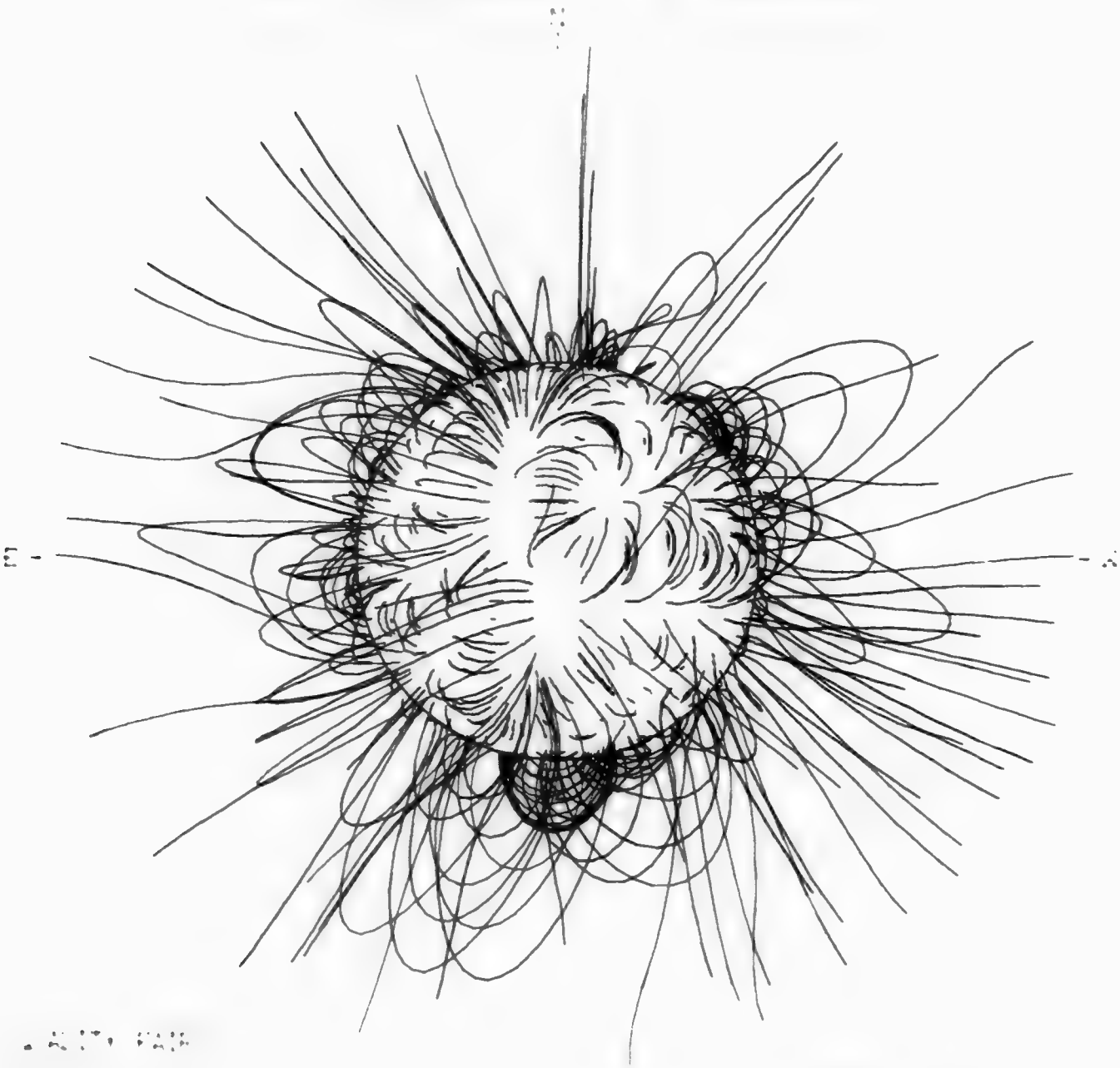
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

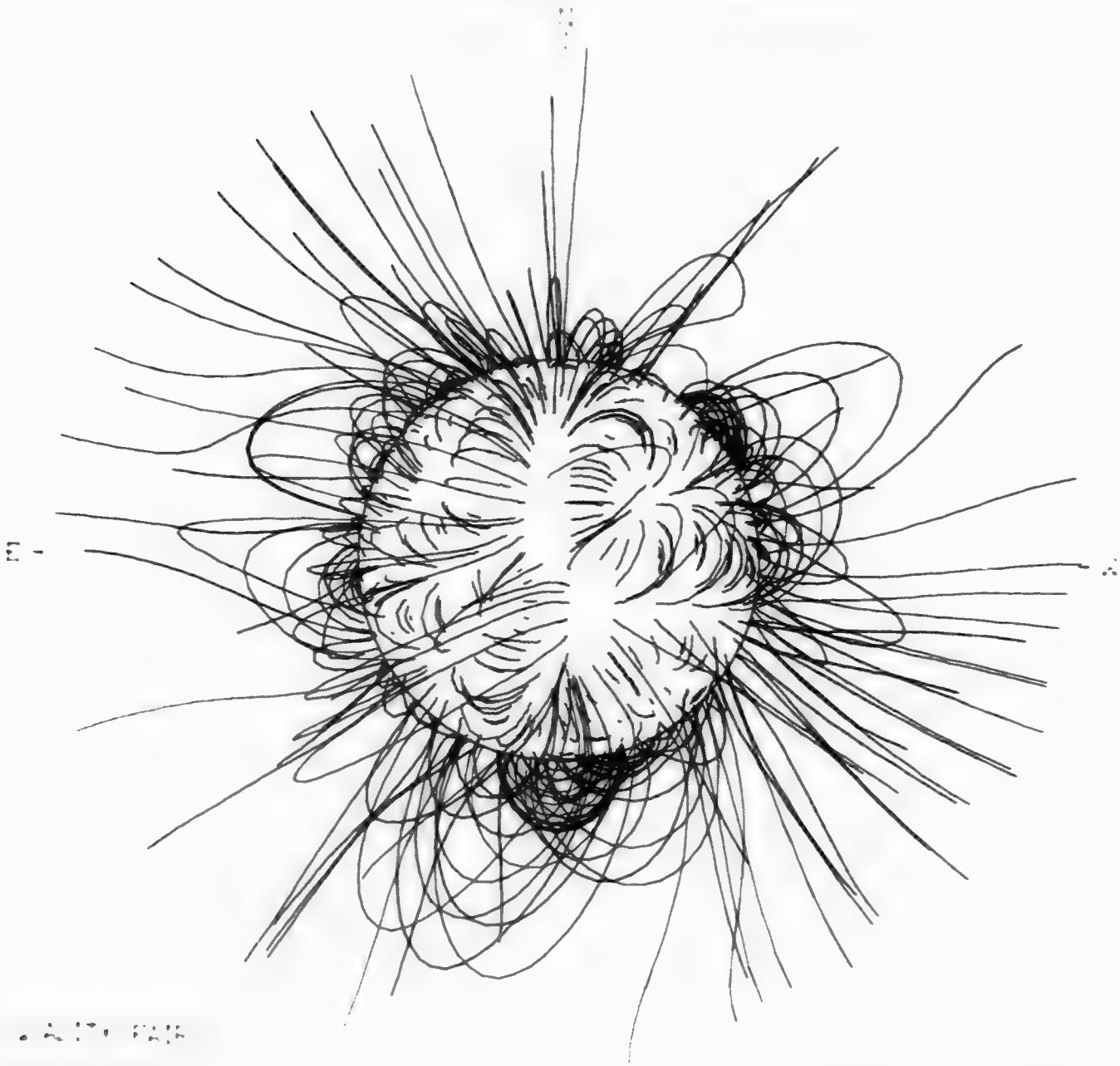


HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

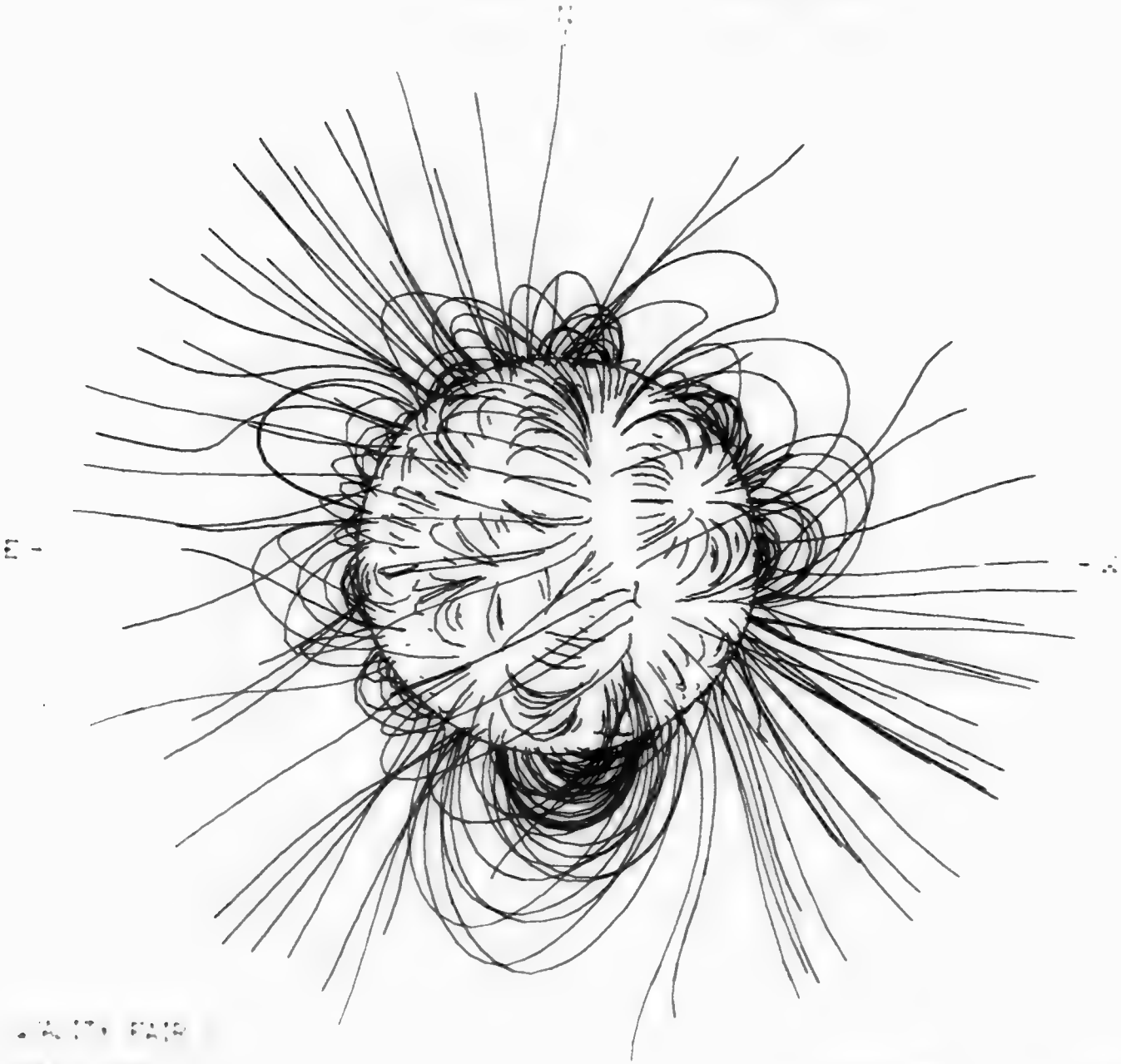


HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

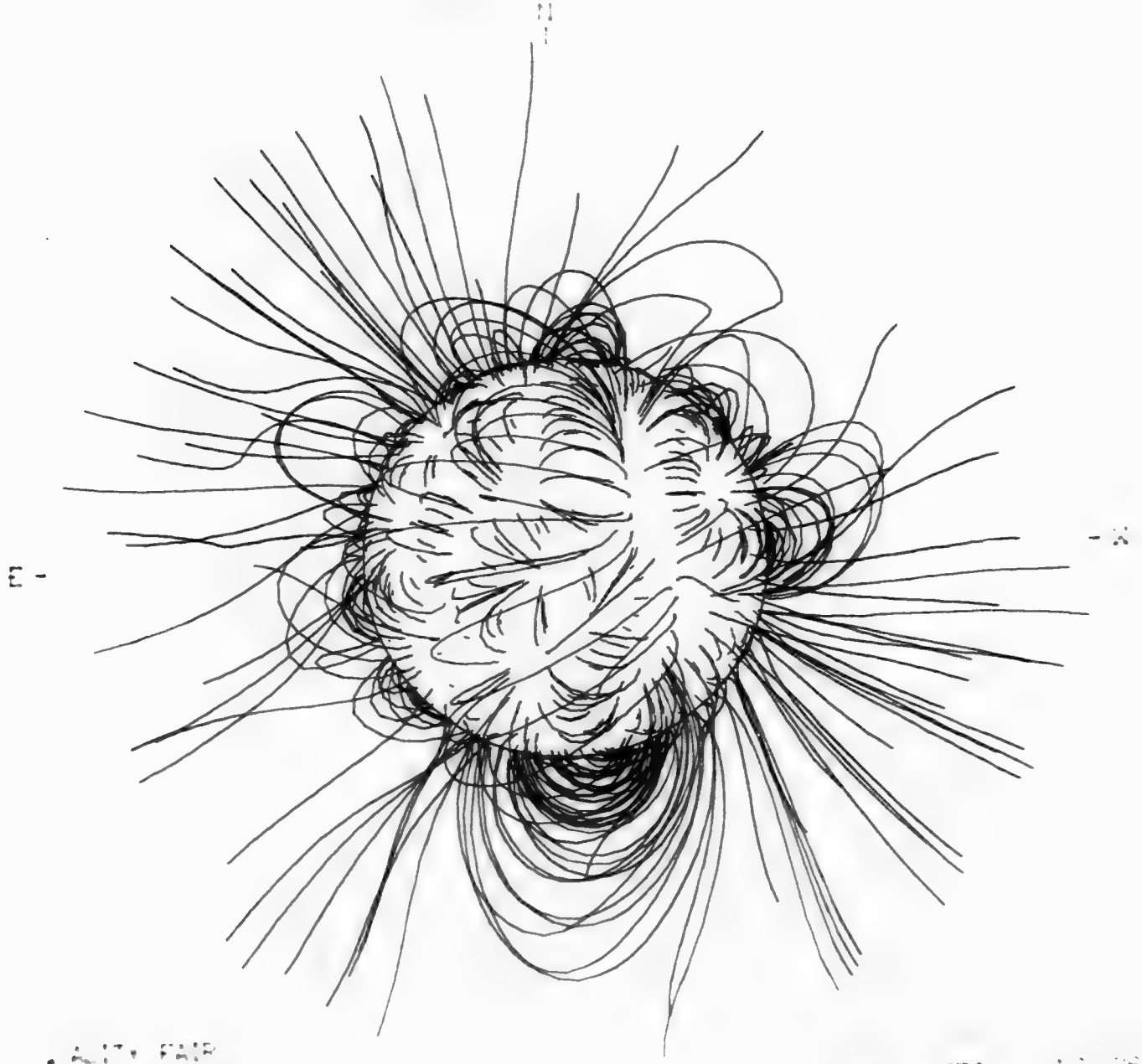
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



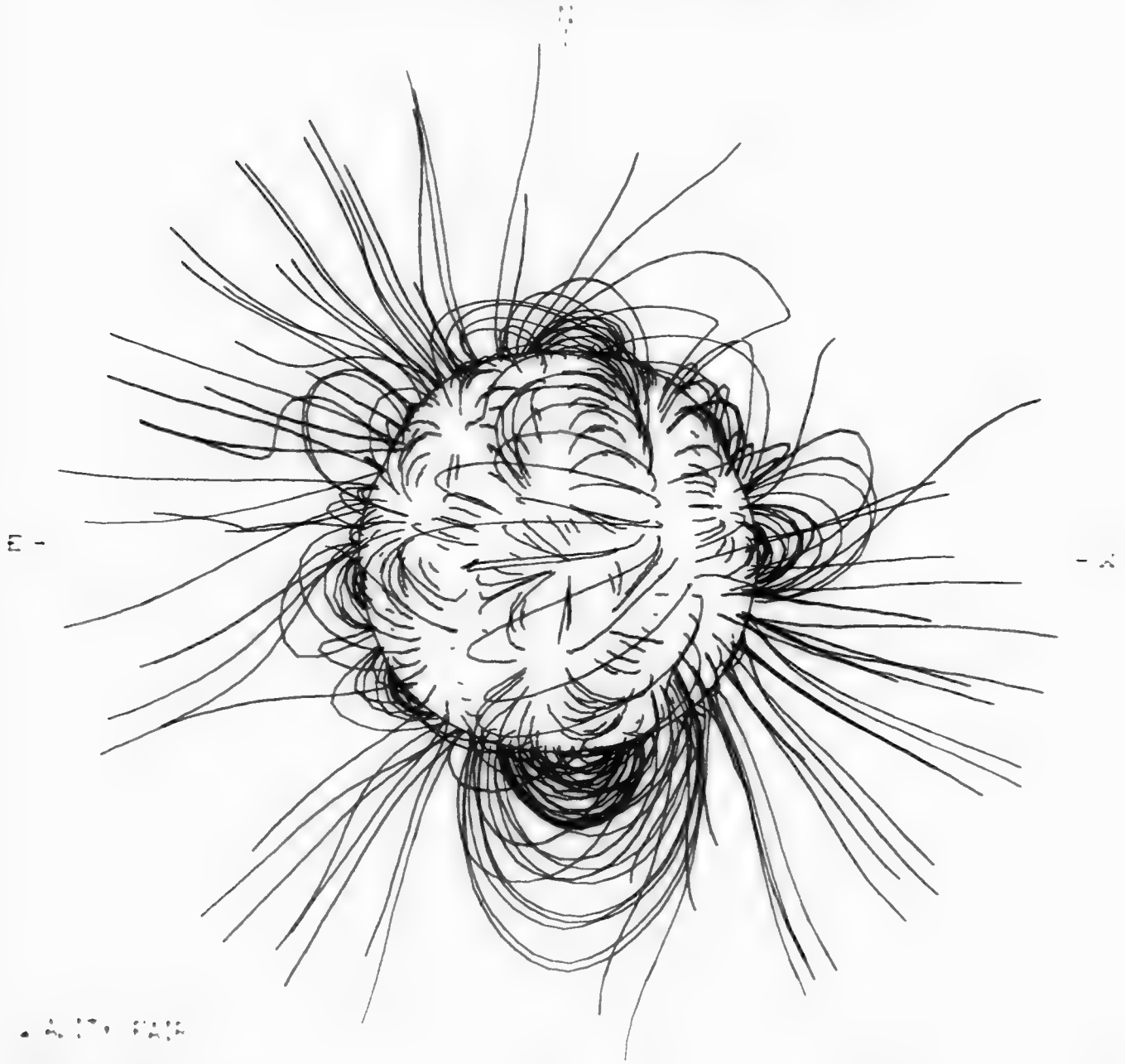
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

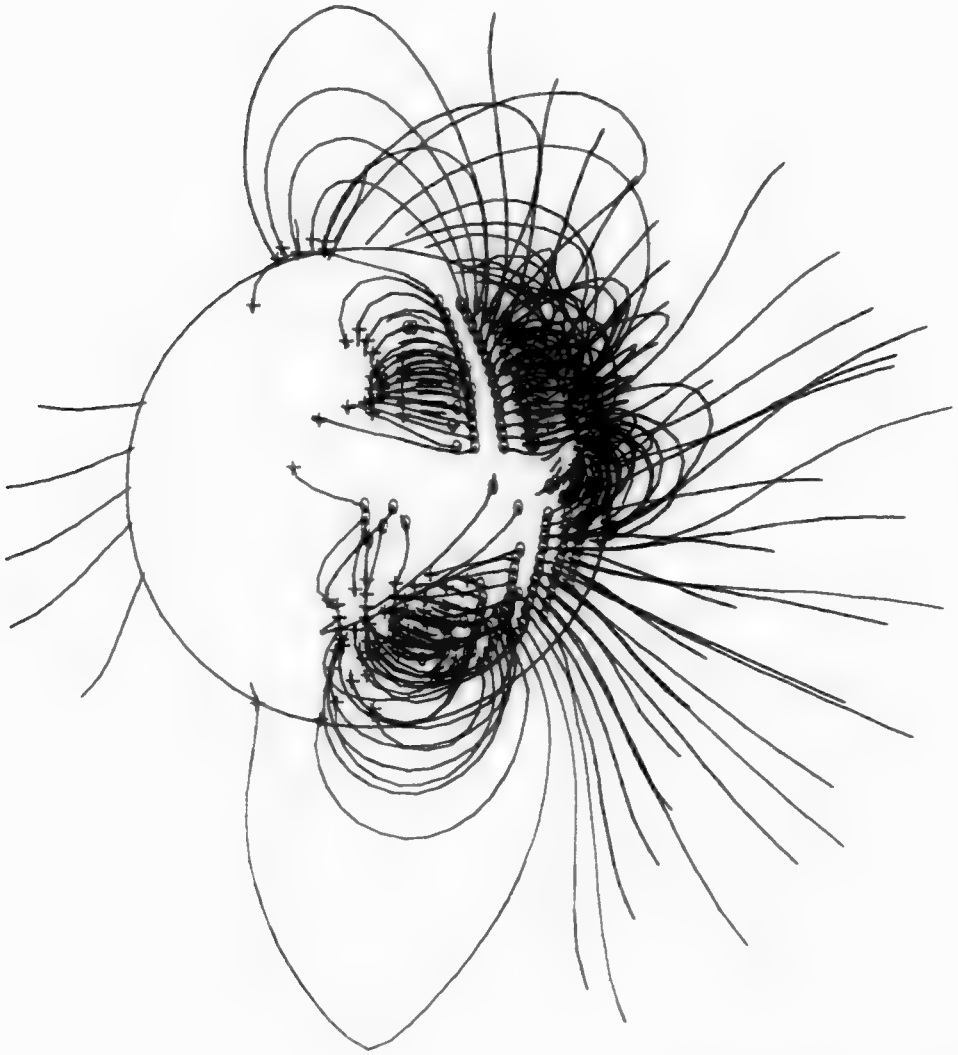


HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



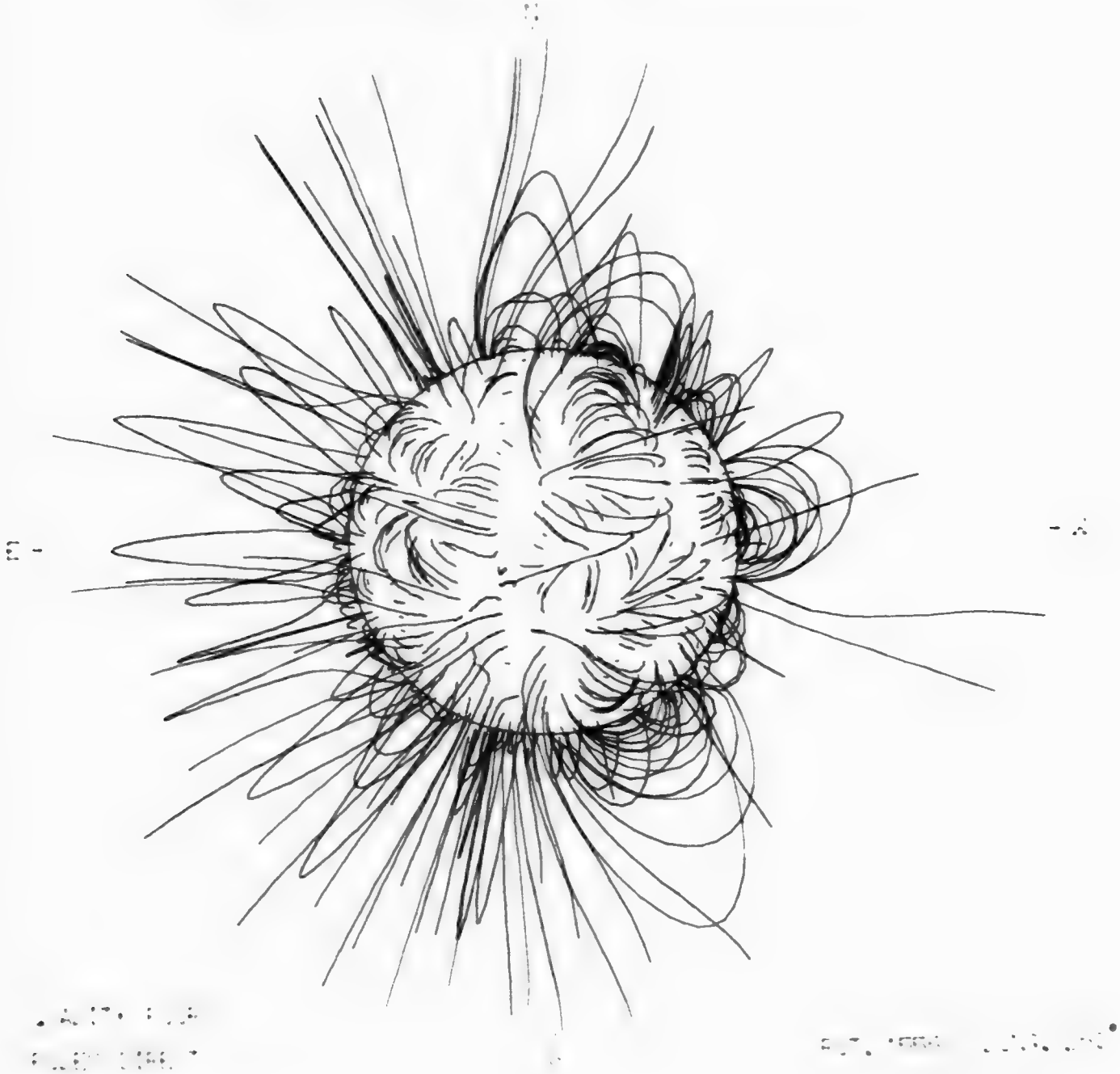
E -

- W

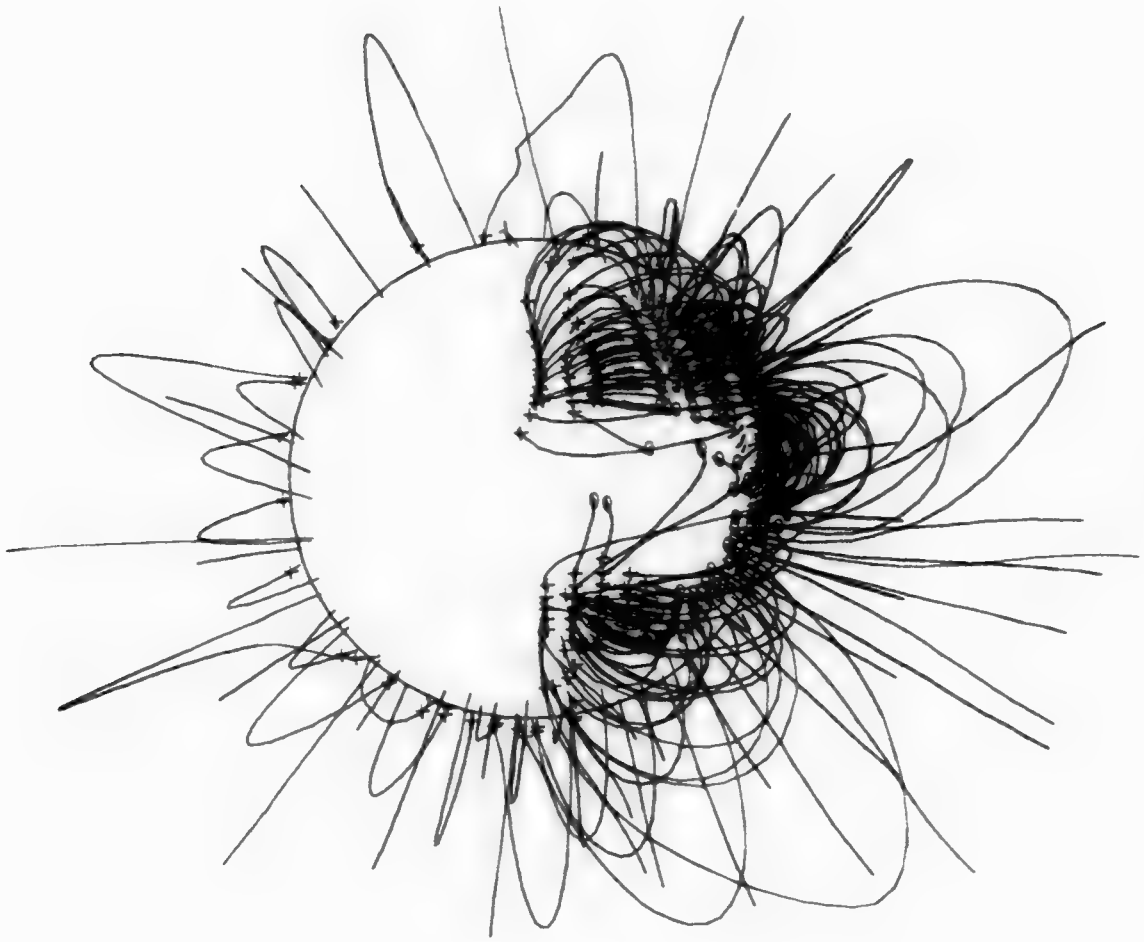
QUALITY FAIR

POLES DIRECT

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



• ALT• POLAR

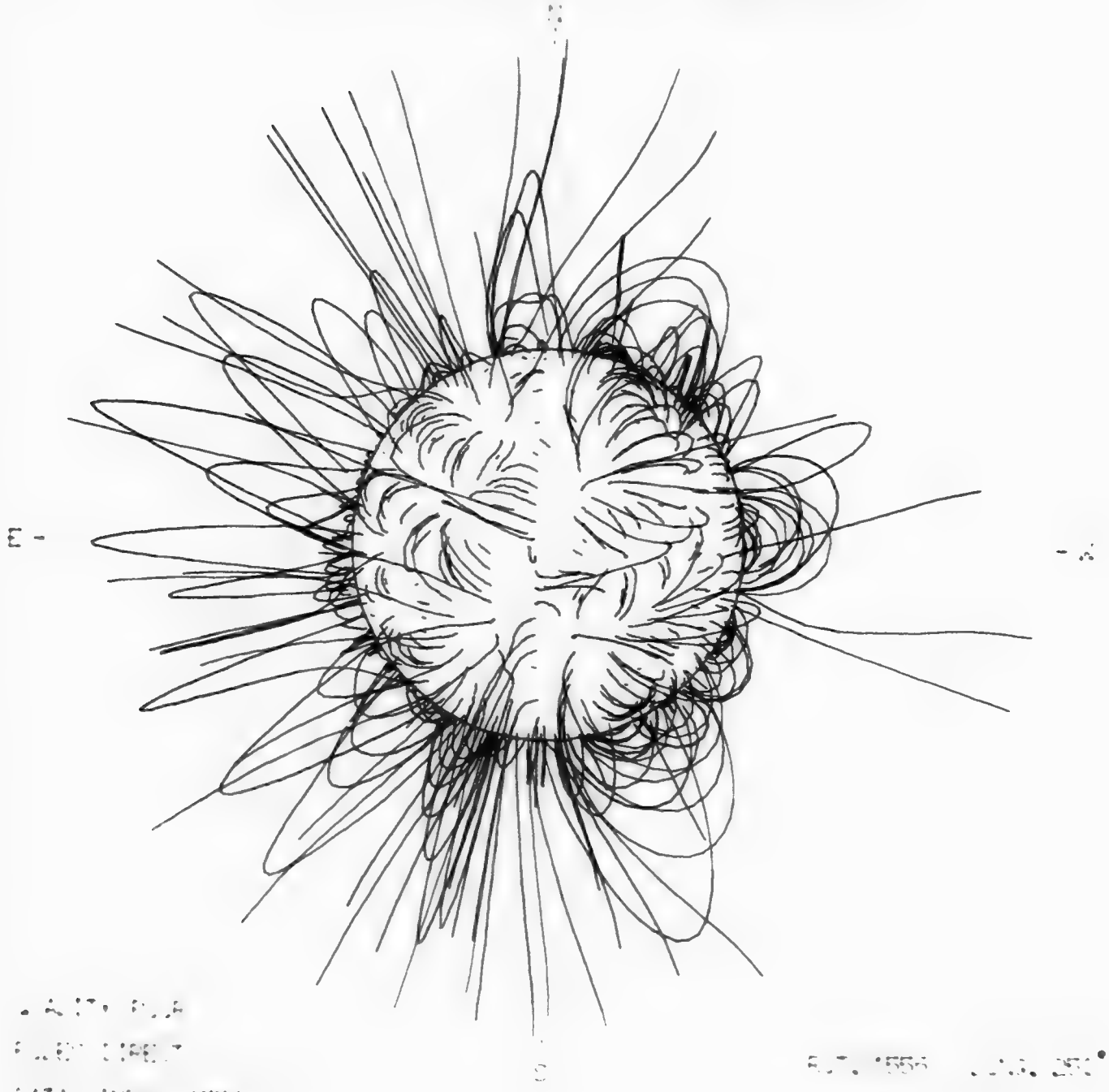
FIELDS DIRECT

DATA ARCHIVED 1556.00

ROT. 1556 .00 DEG

.5 AU .47

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



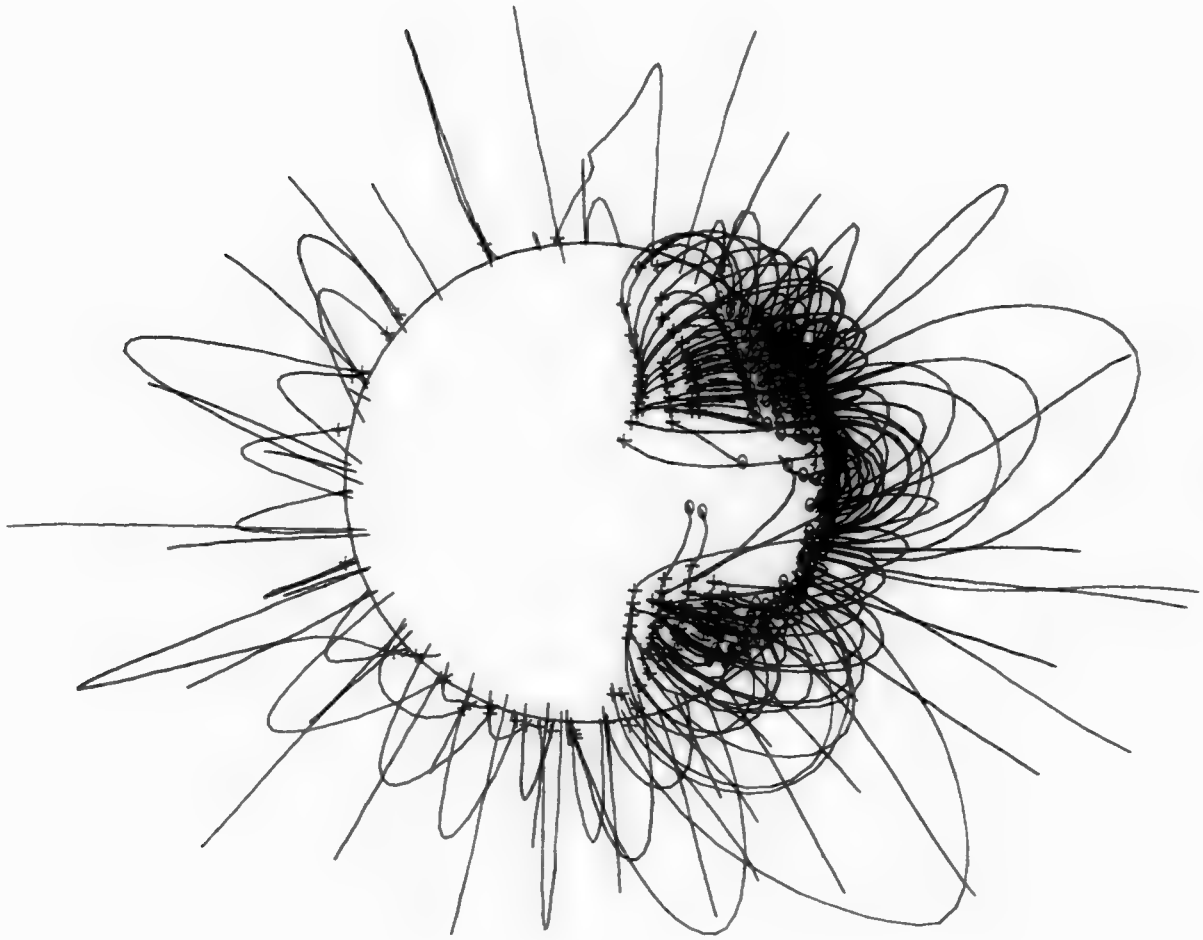
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N

E -

- W

S



QUALITY POOR

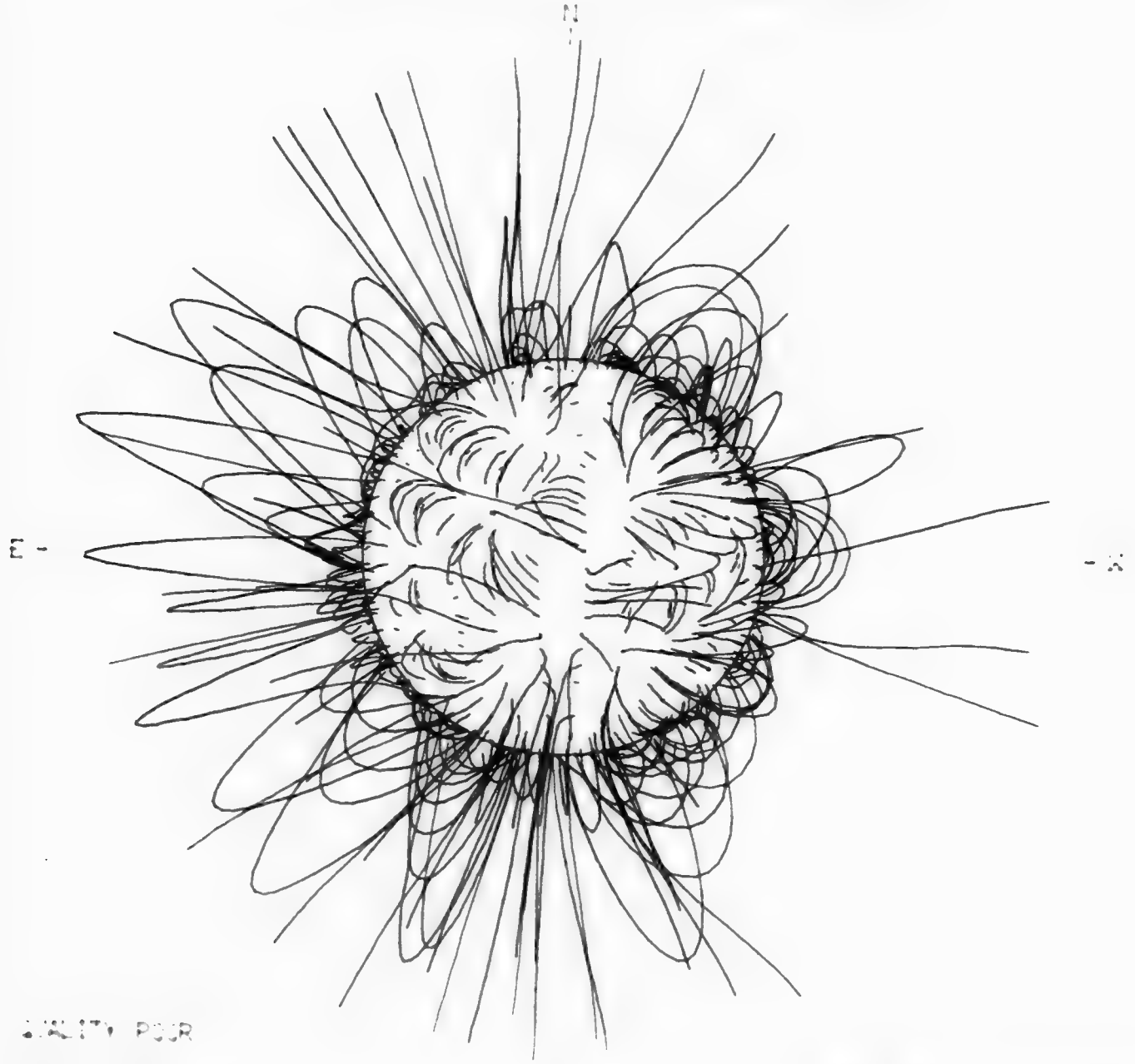
PLOTS DIRECT

DATA WINDOW 1556.00

RCT. 1556 LONG. 251°

2.3 [illegible]

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



QUALITY POOR

RULES DIRECT

DATA MILLS 1956.0

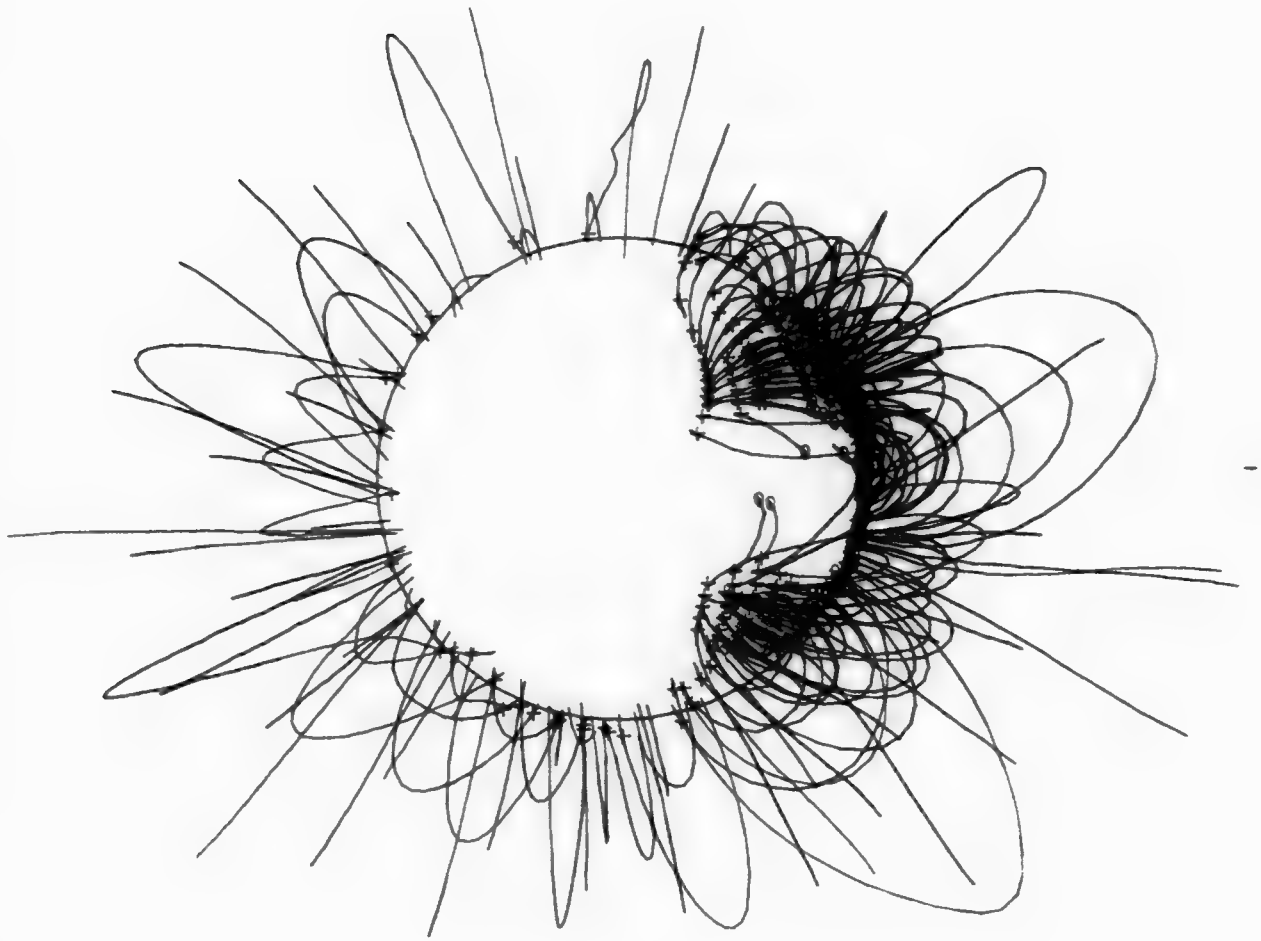
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N

E -

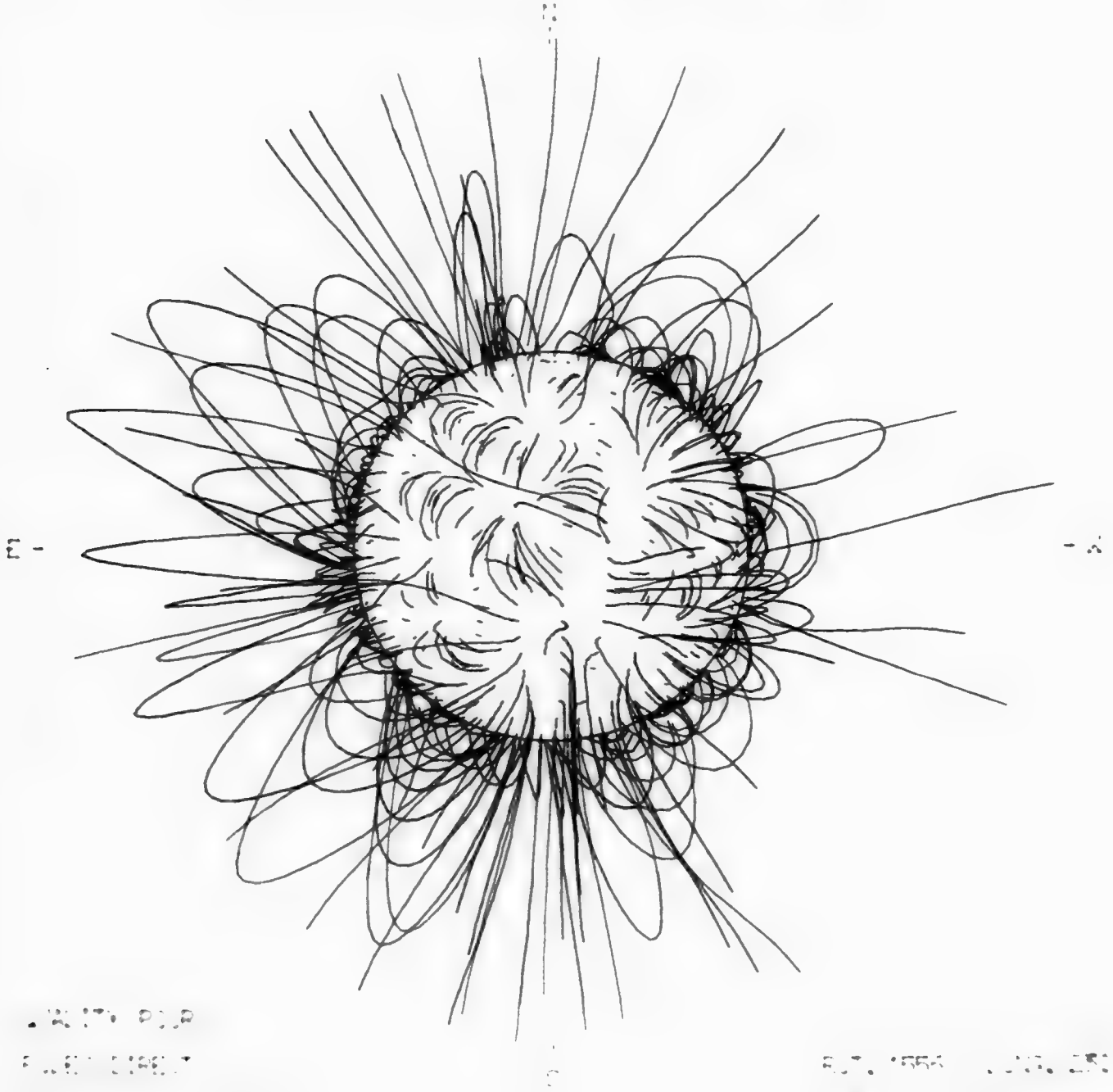
- W

S

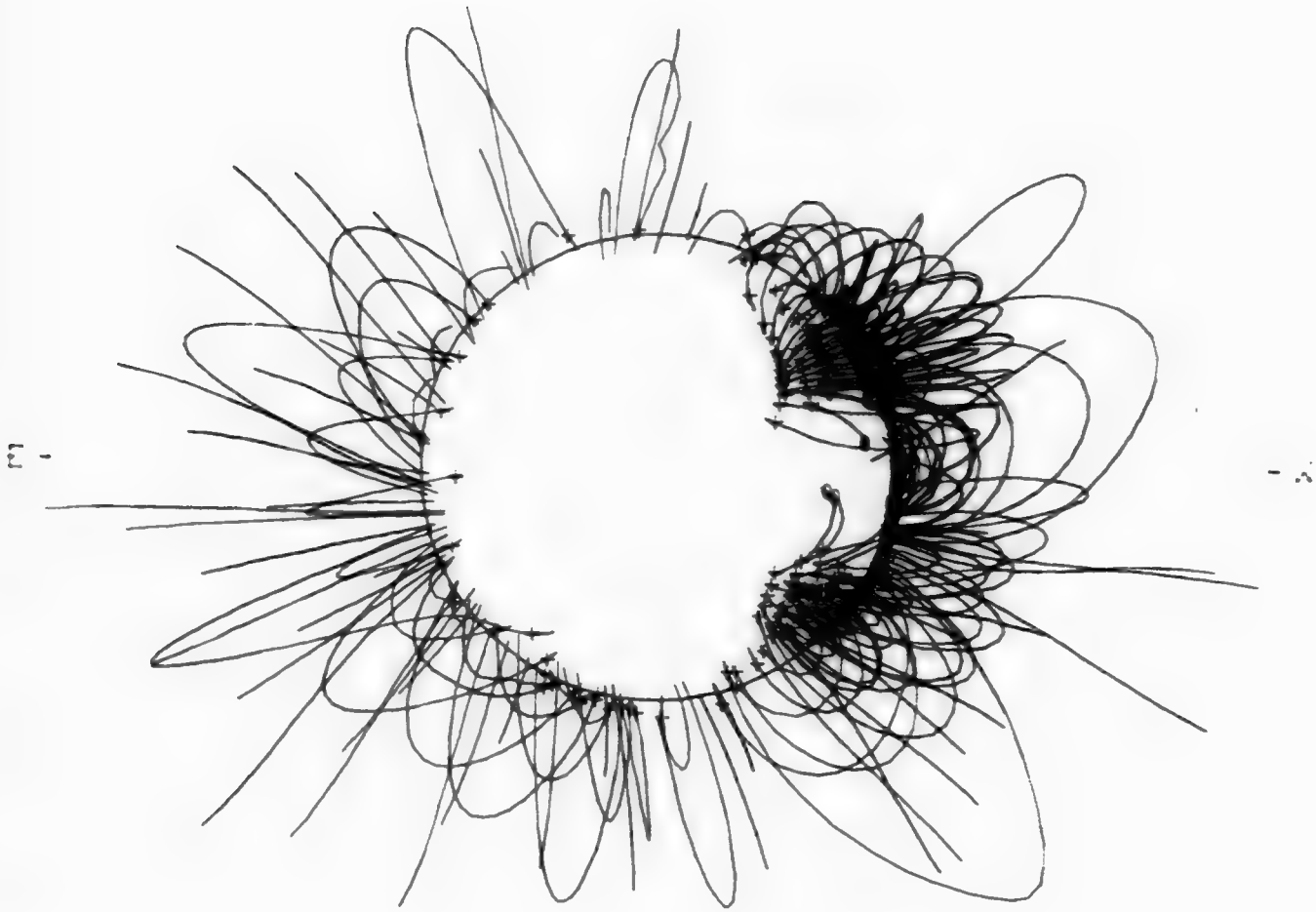


ROT. 1555

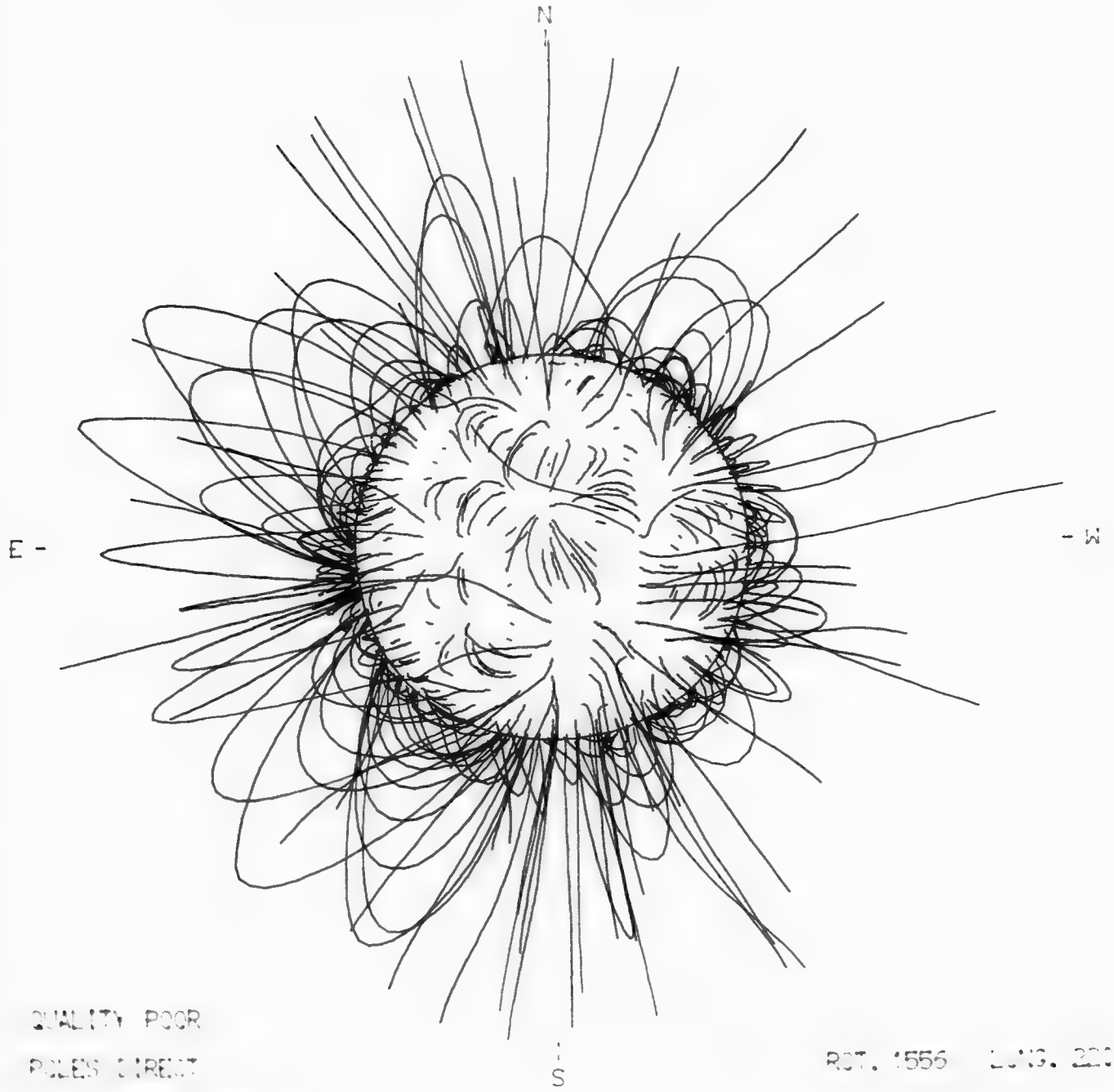
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



QUALITY POOR

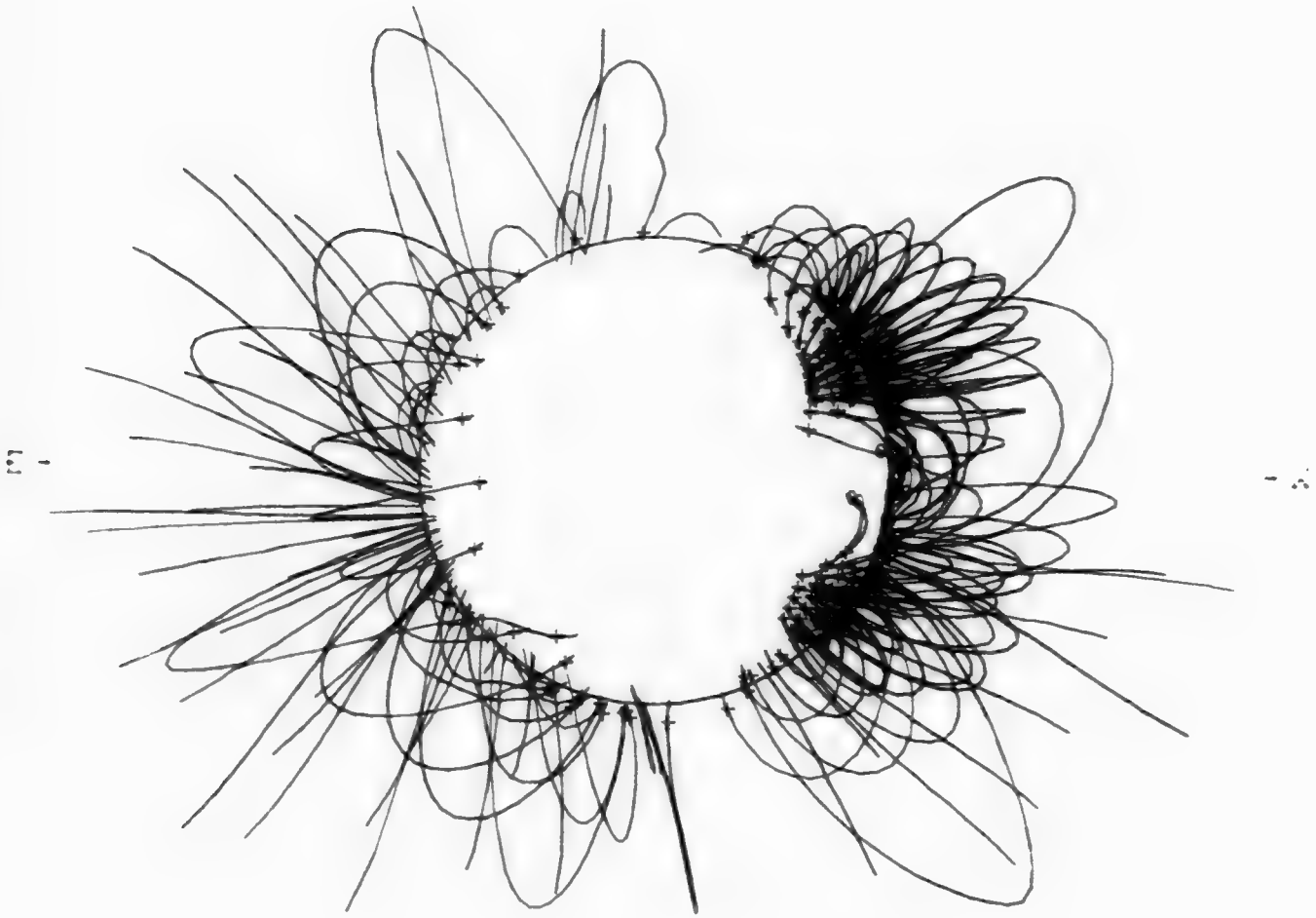
POLES DIRECT

DATA WINDOW 1556.00

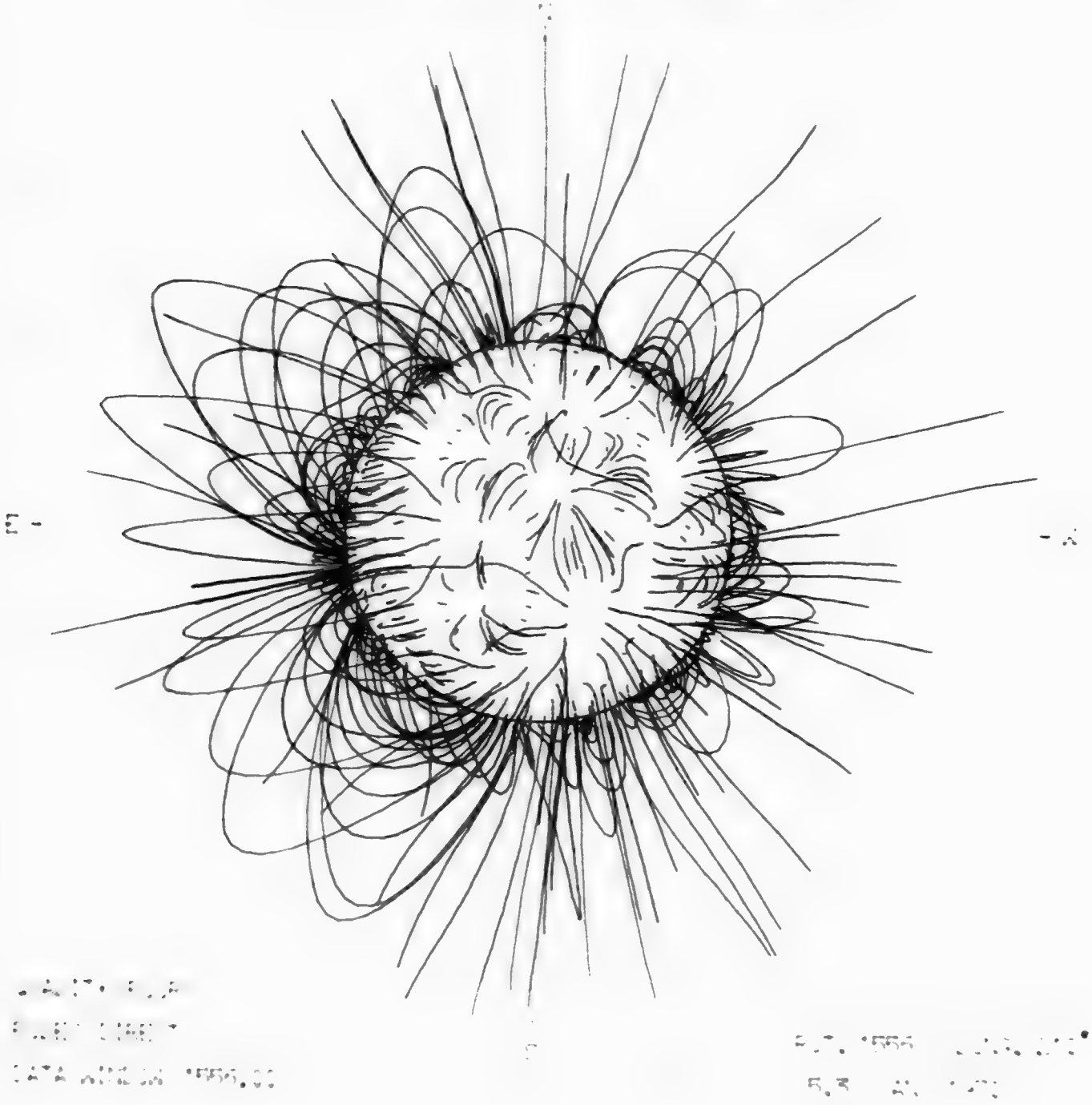
ROT. 1556 LONG. 220°

4.5 JAN 1970

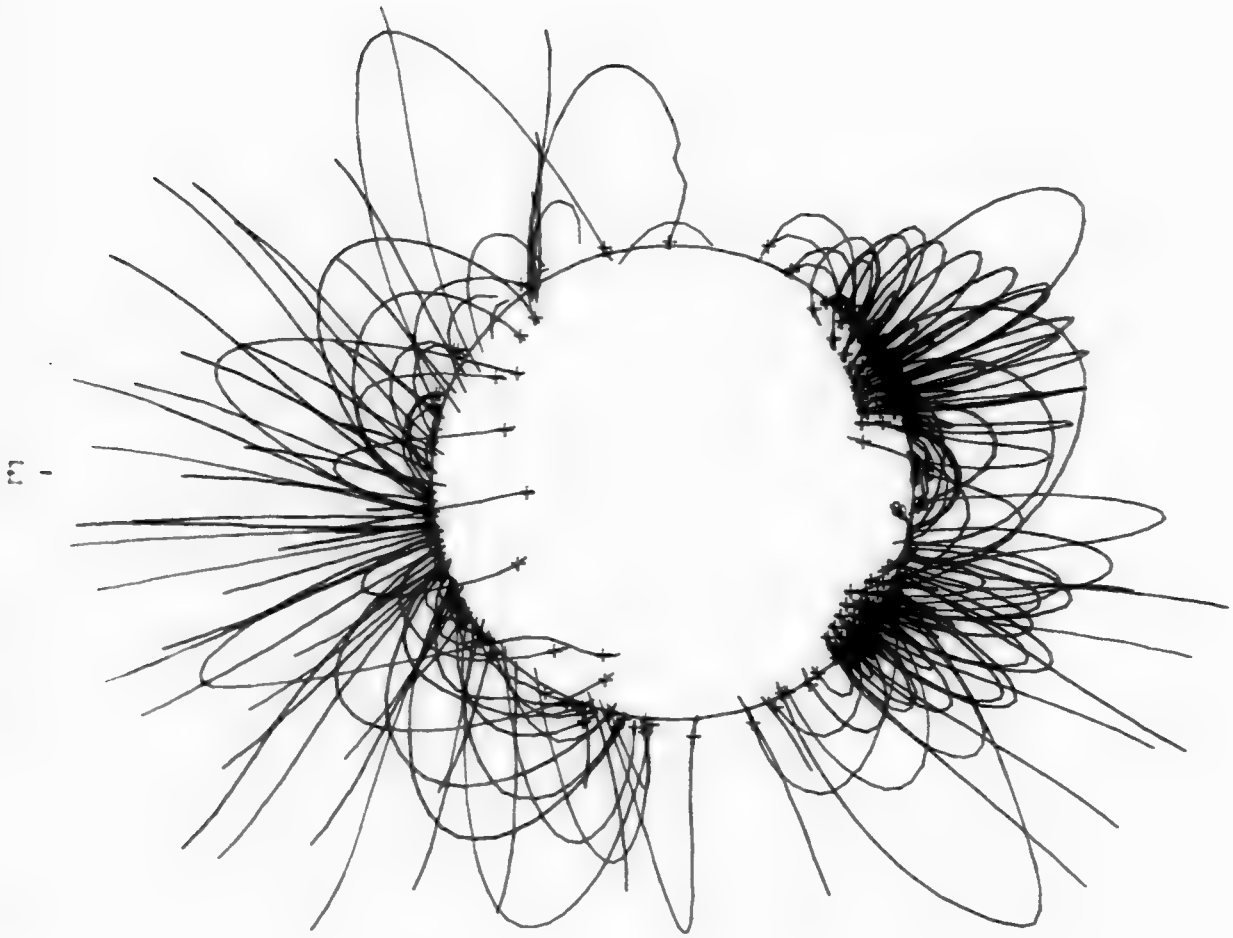
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



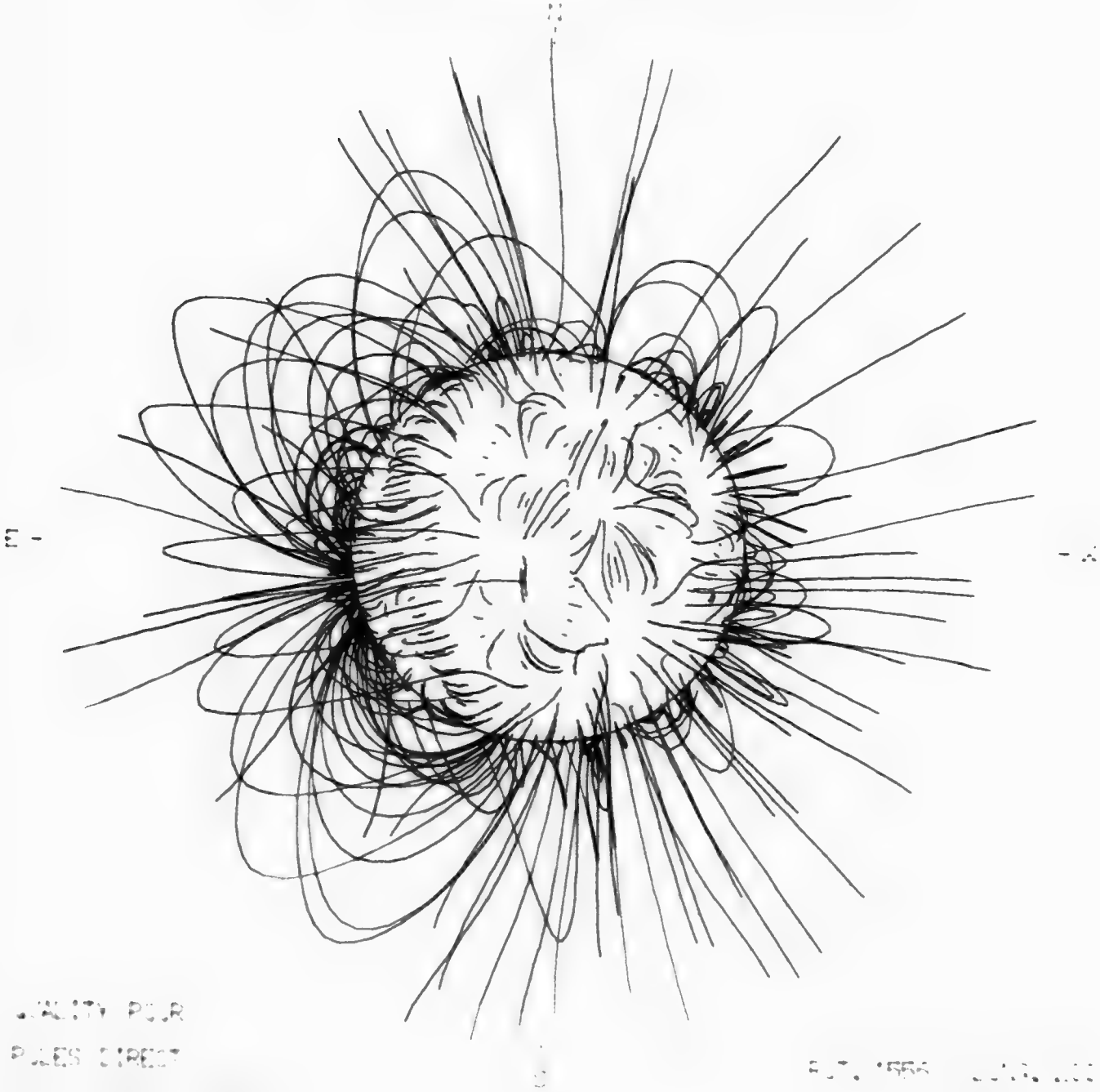
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

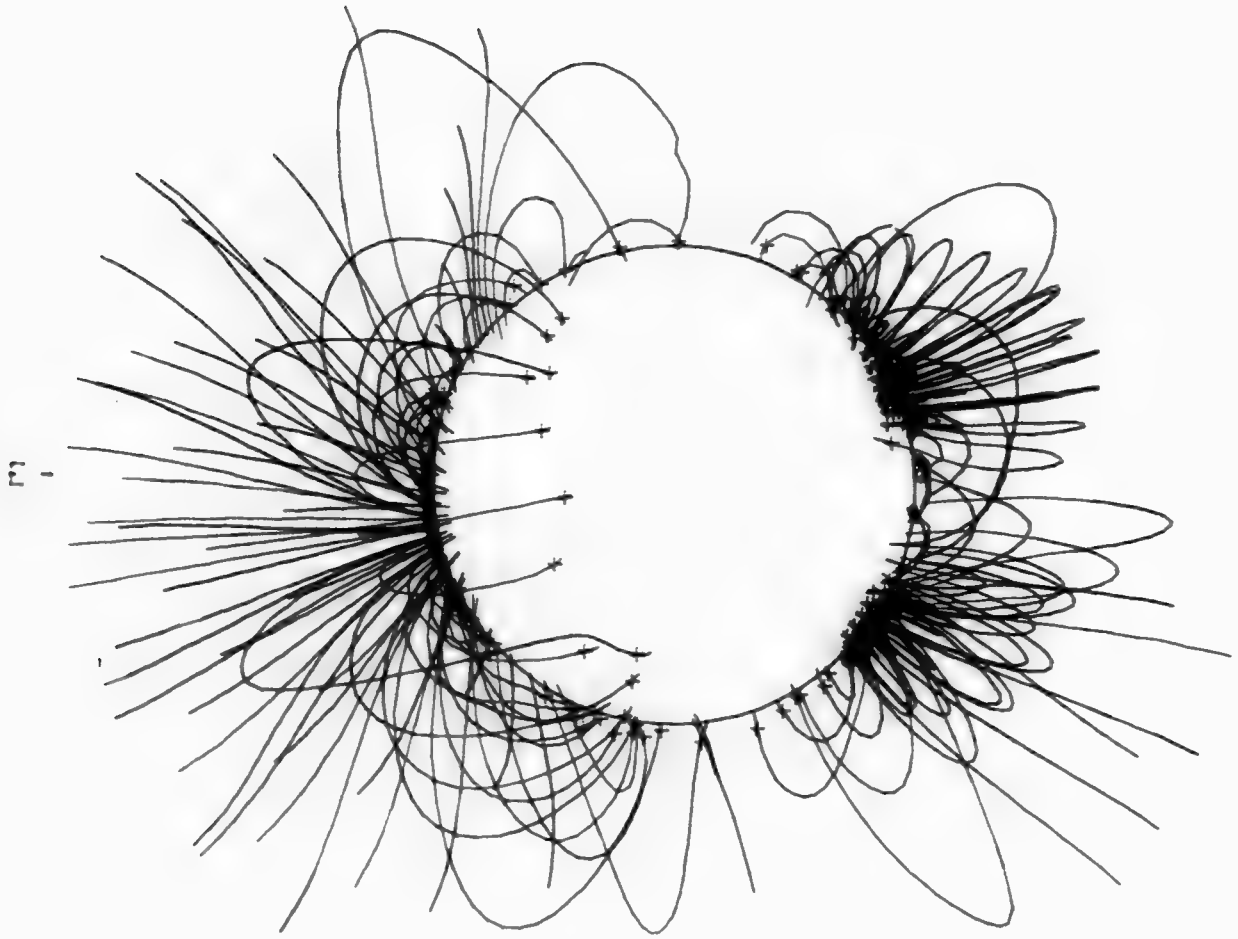


HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

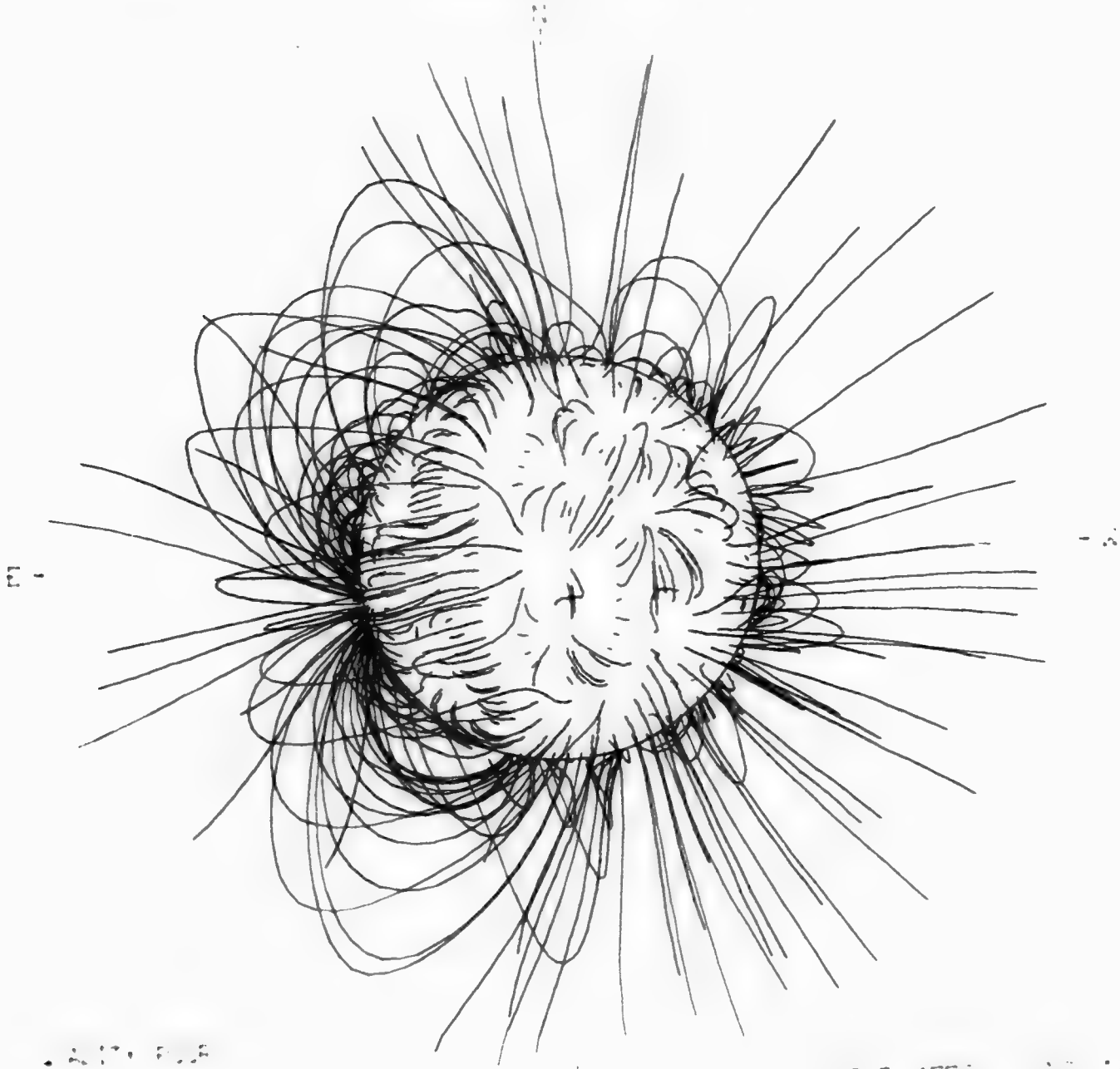


[illegible]ALITY POOR
PAGES DIRECT
[illegible]

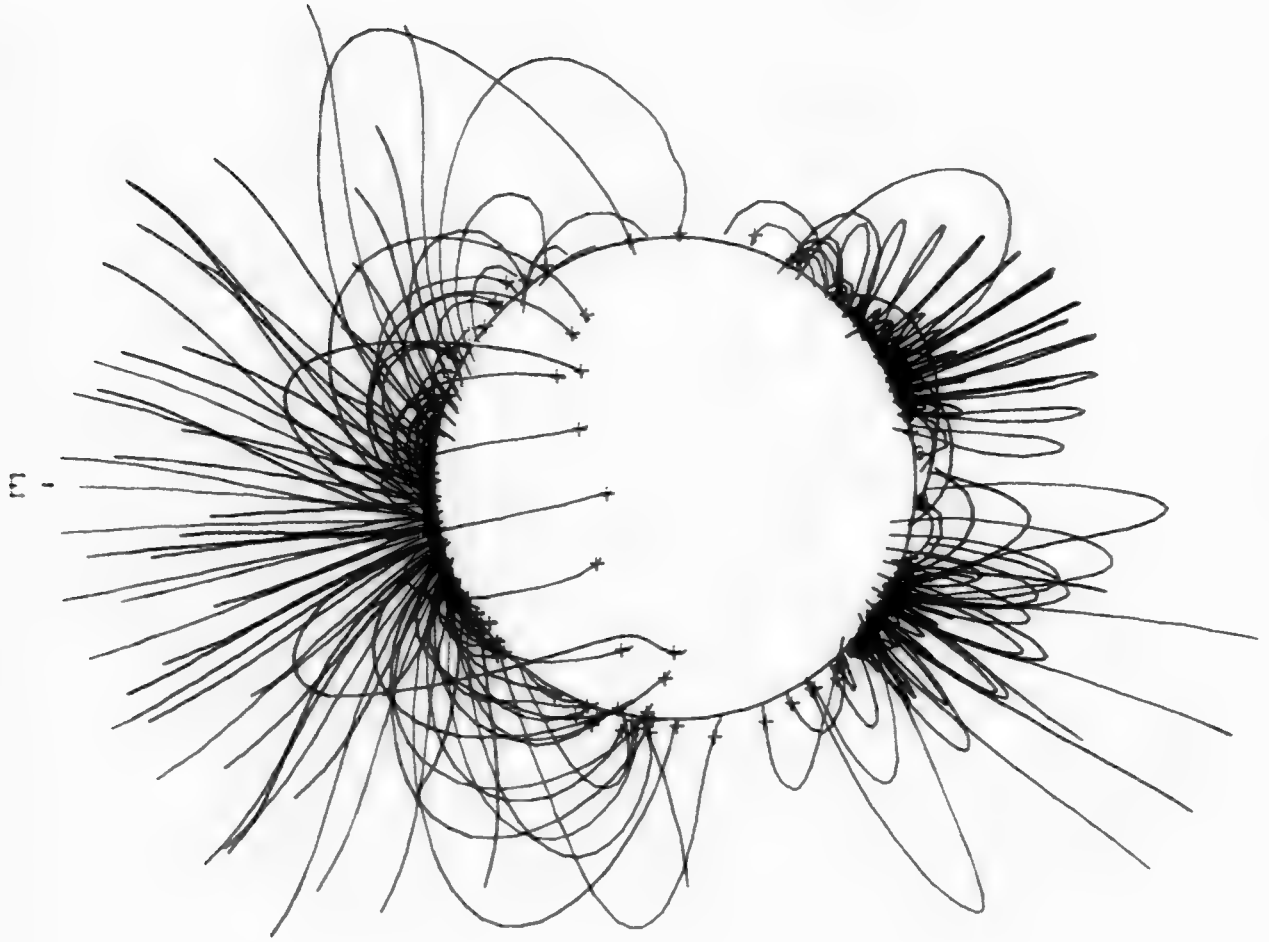
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



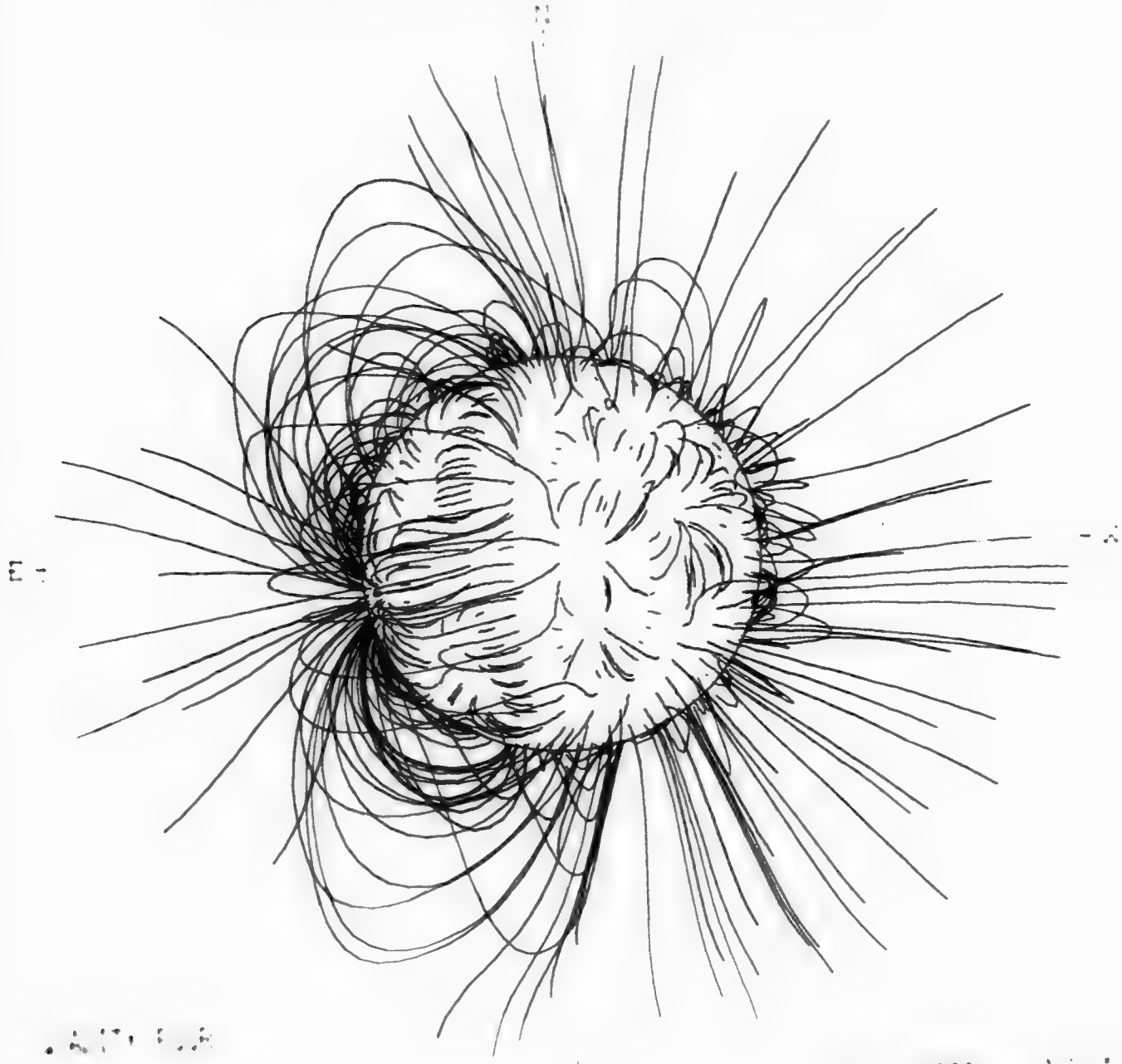
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



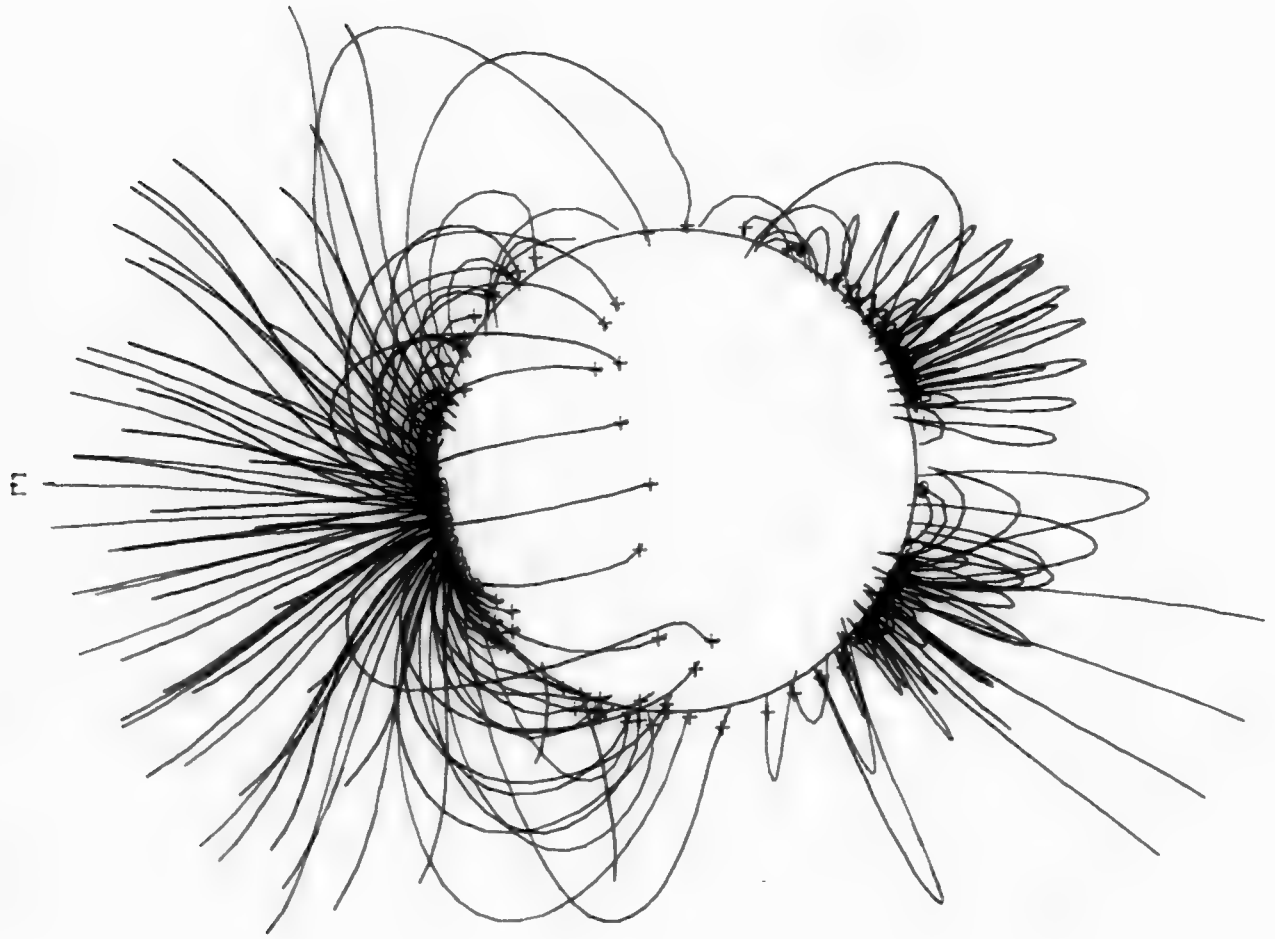
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



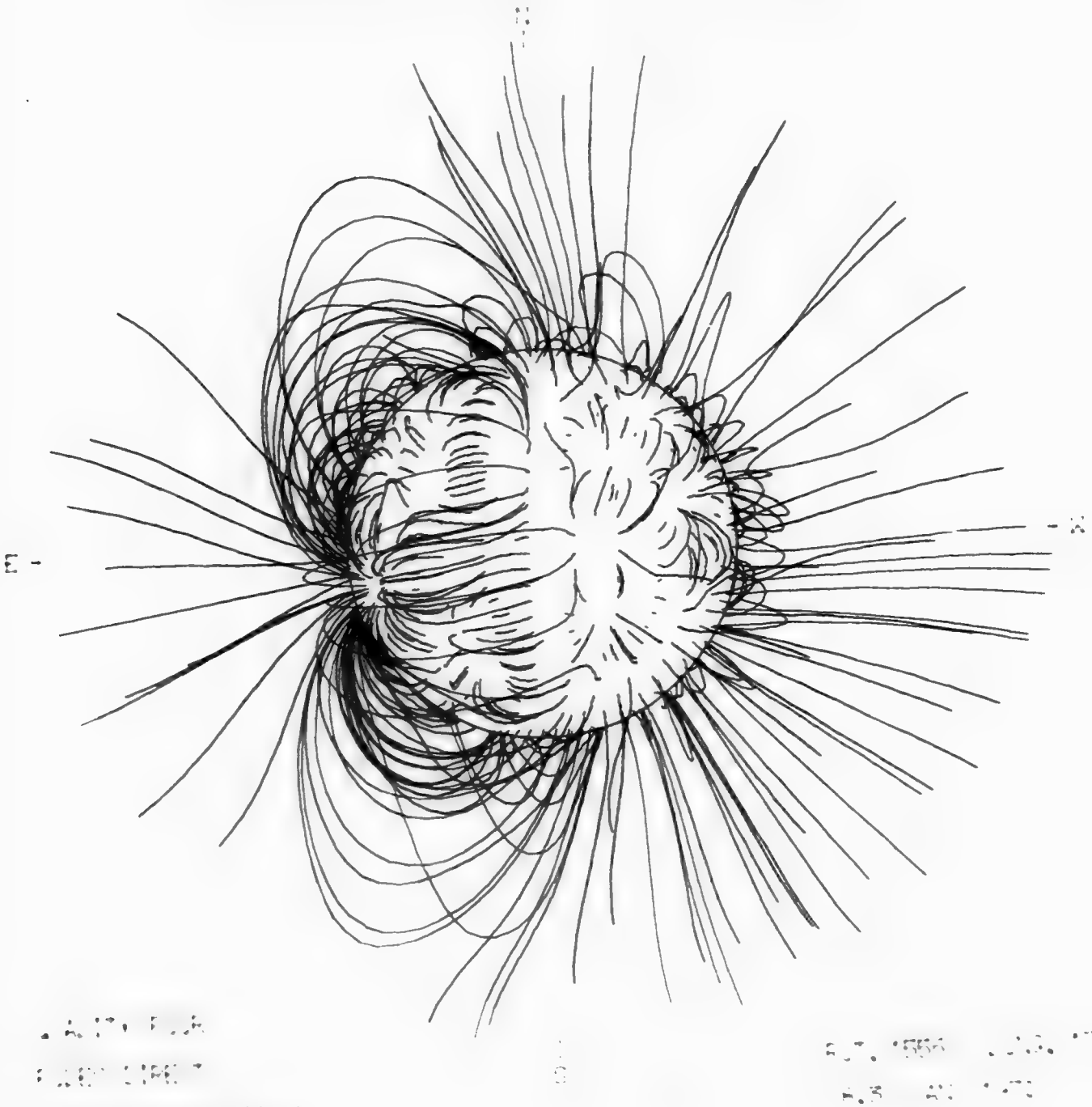
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



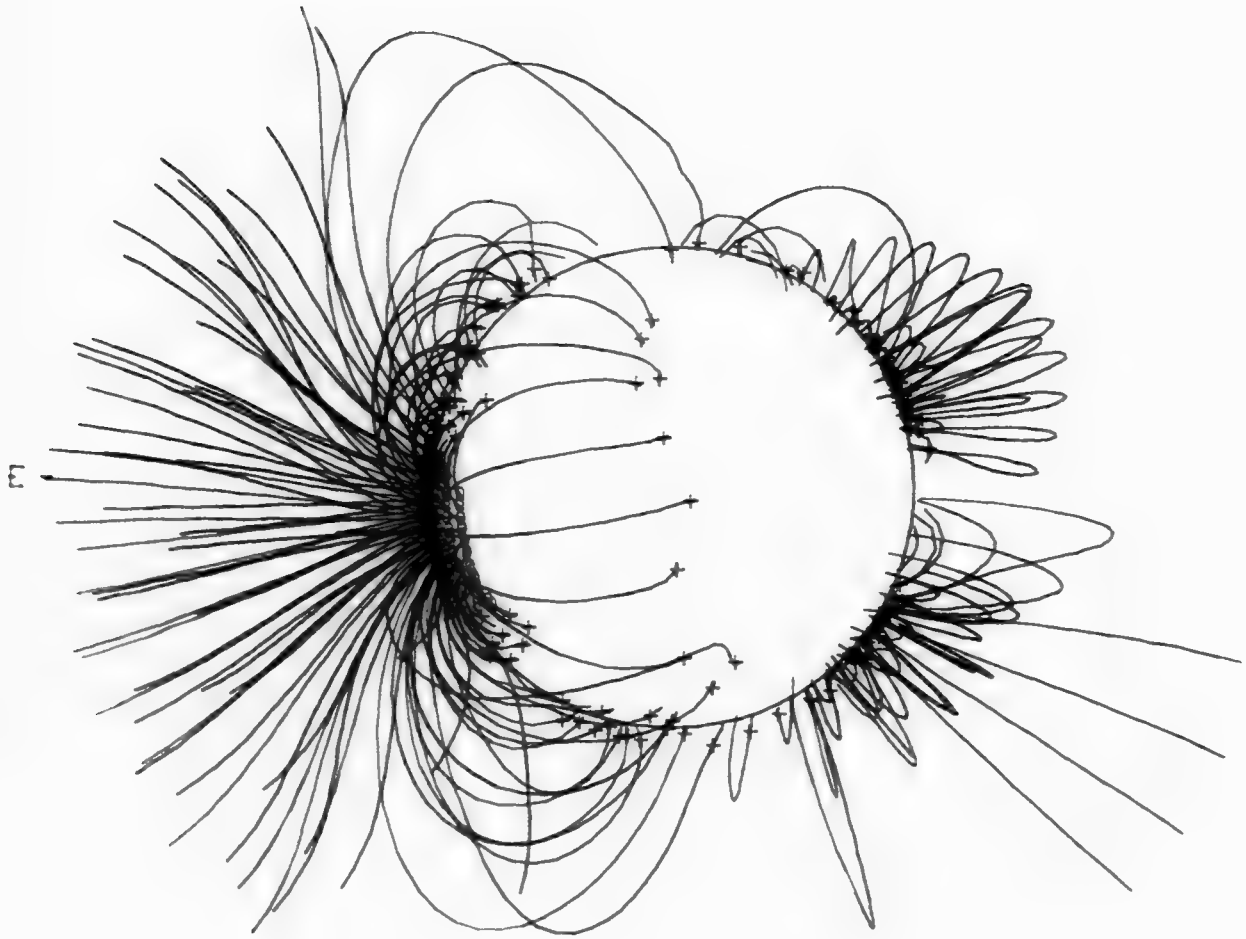
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



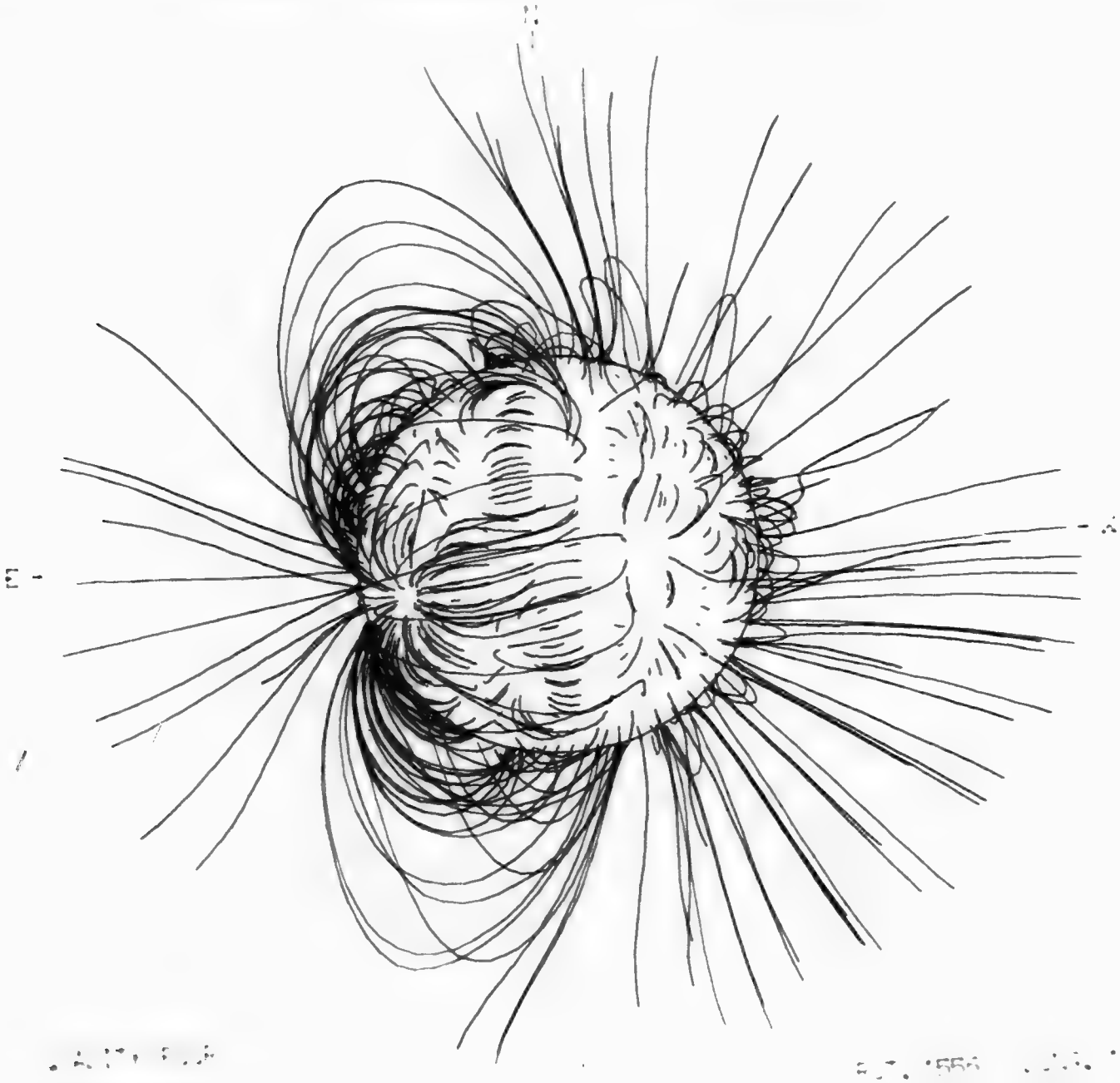
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



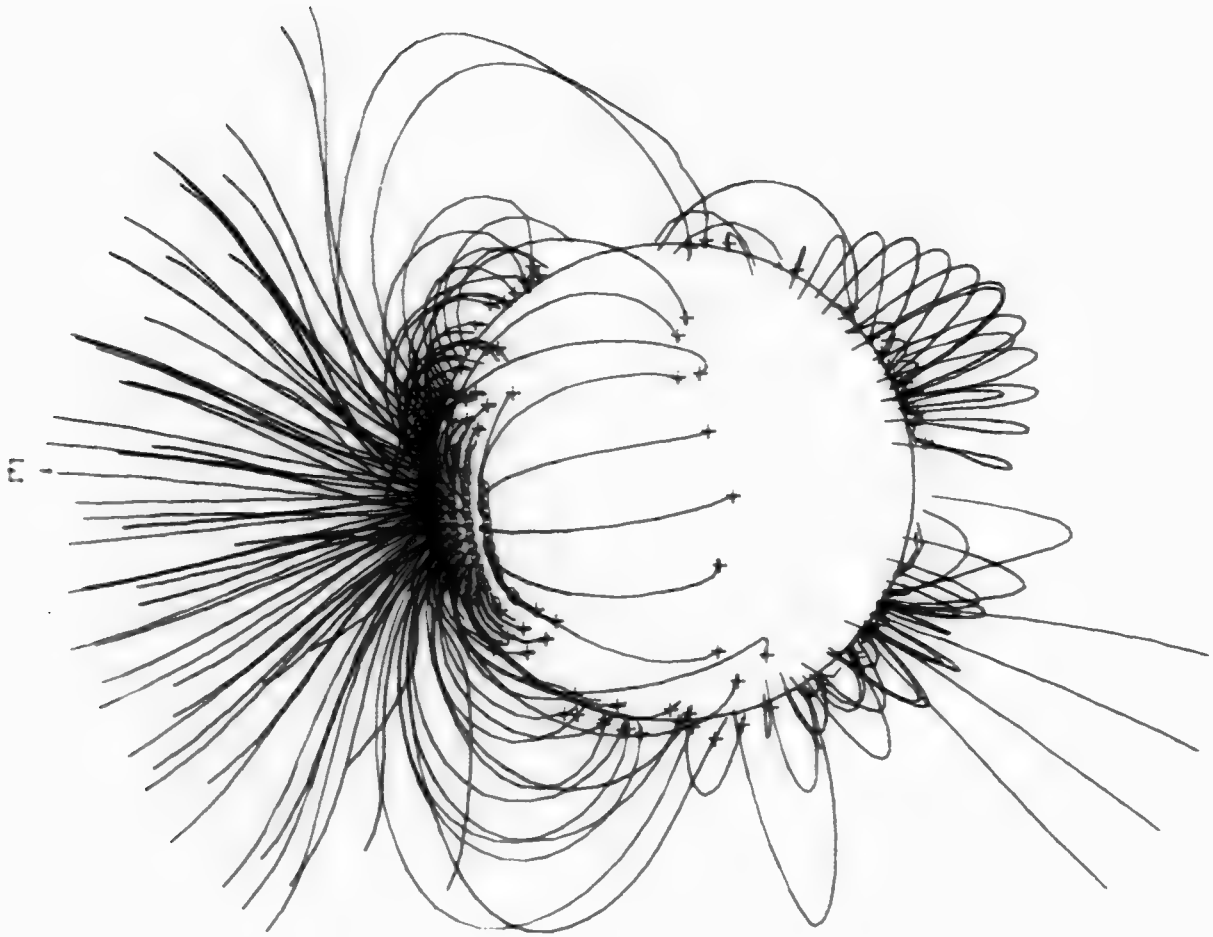
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

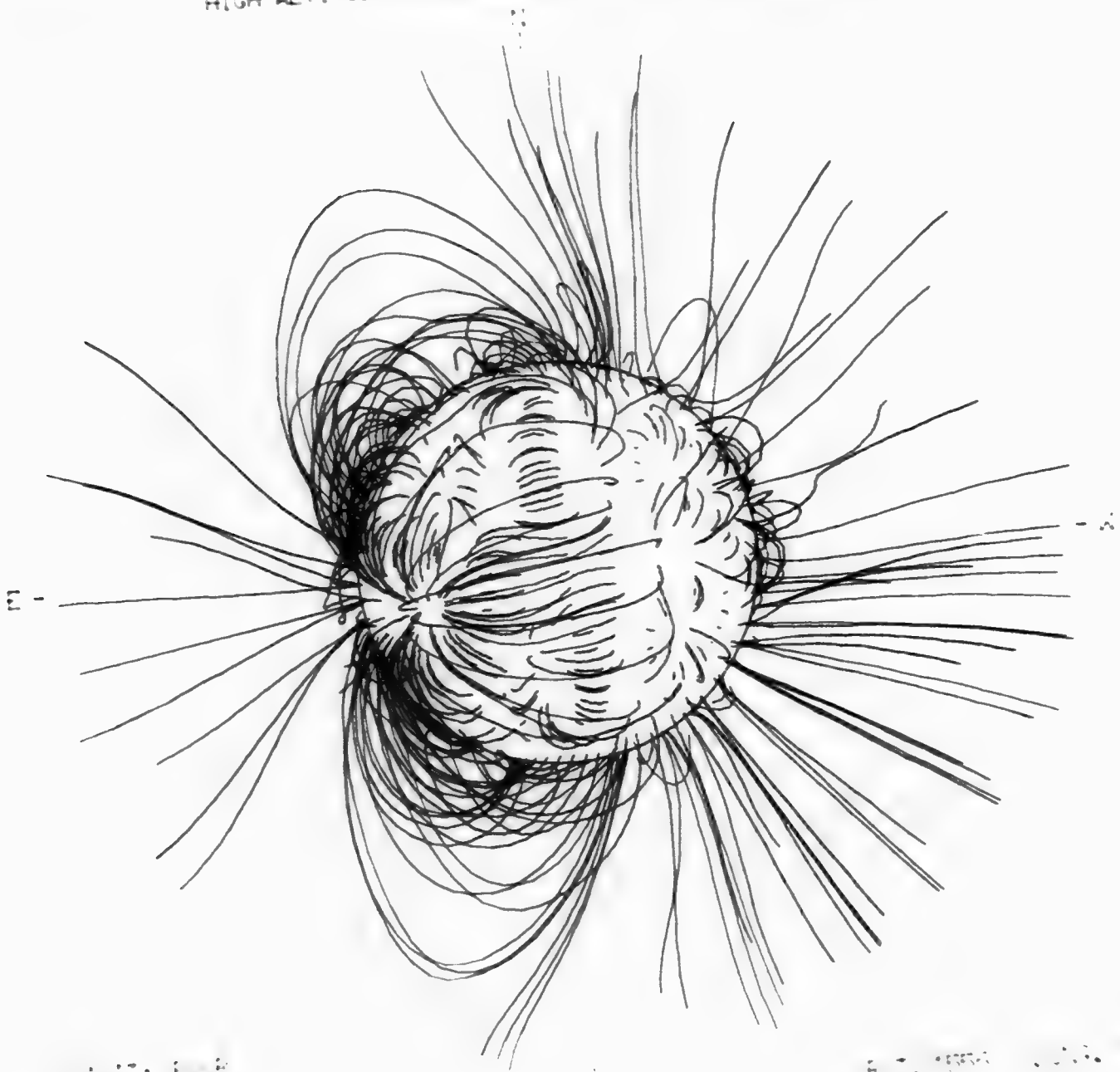


QUALITY POOR

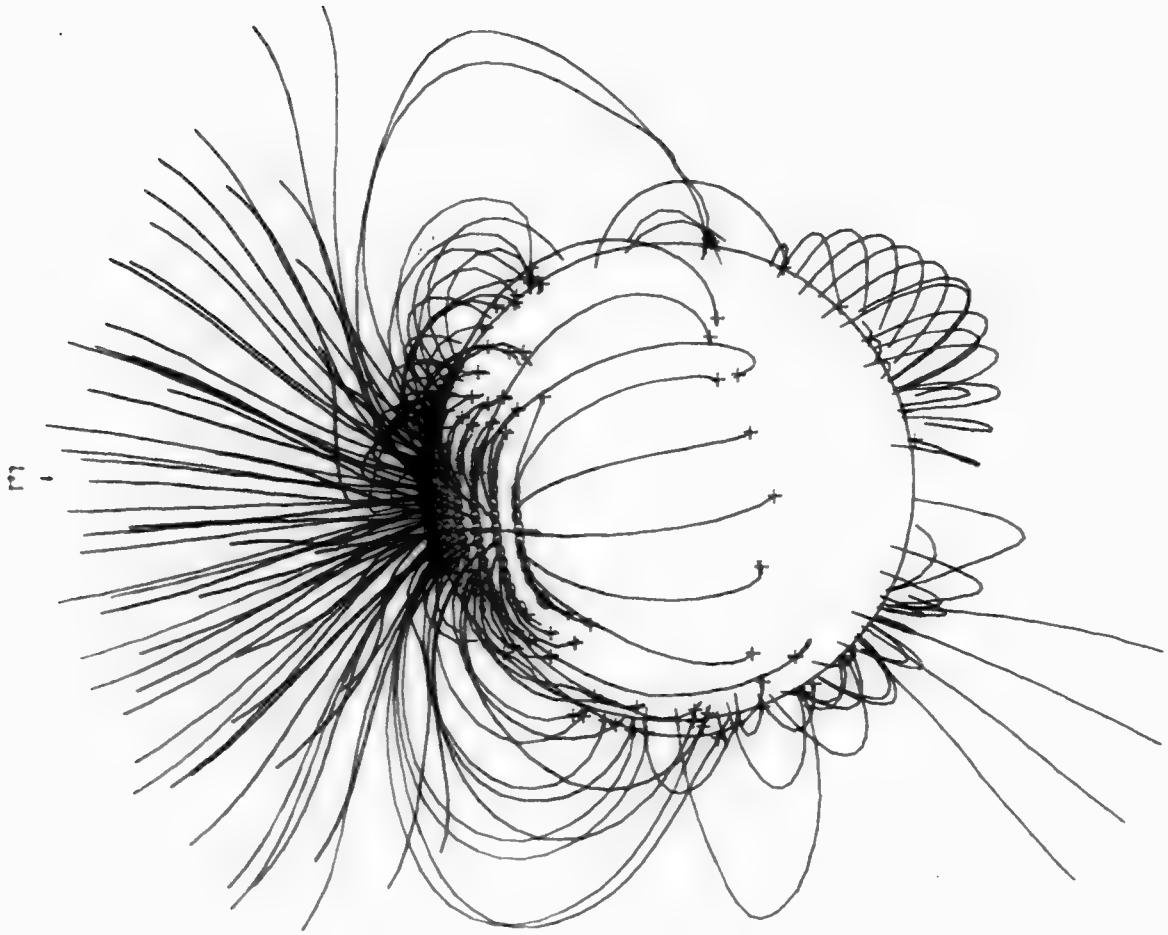
FILMED FROM BEST

DATA AVAILABLE

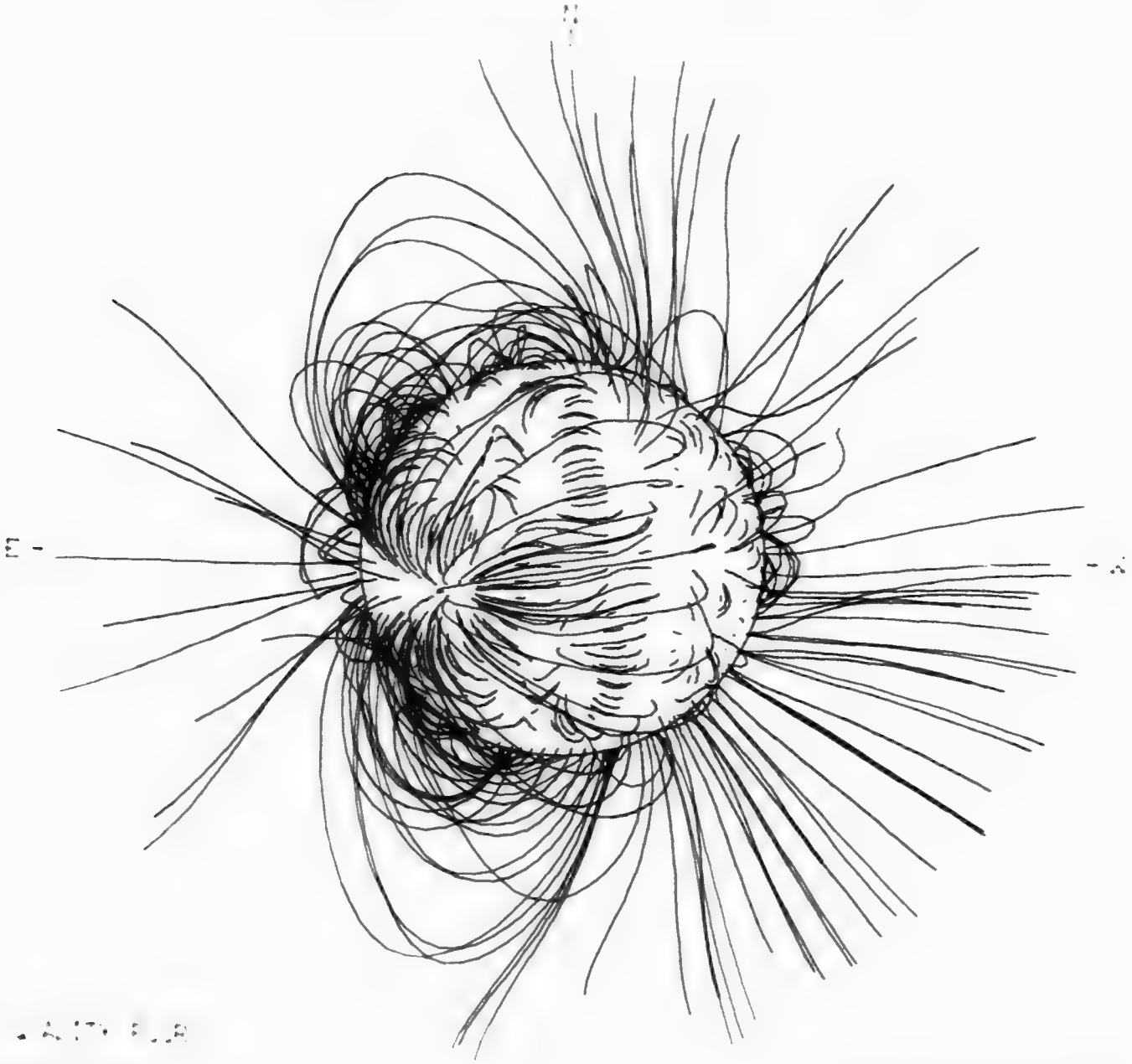
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



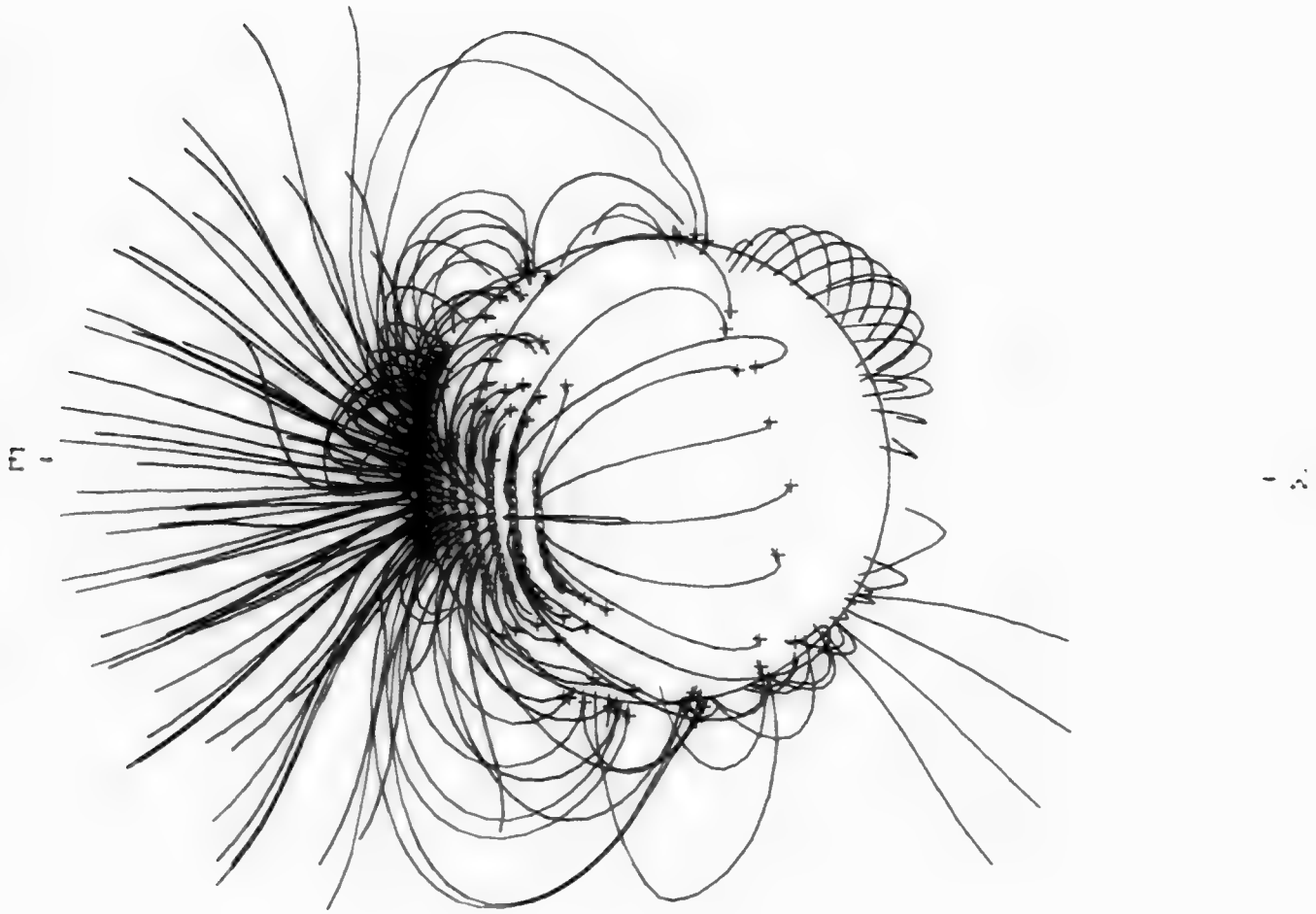
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



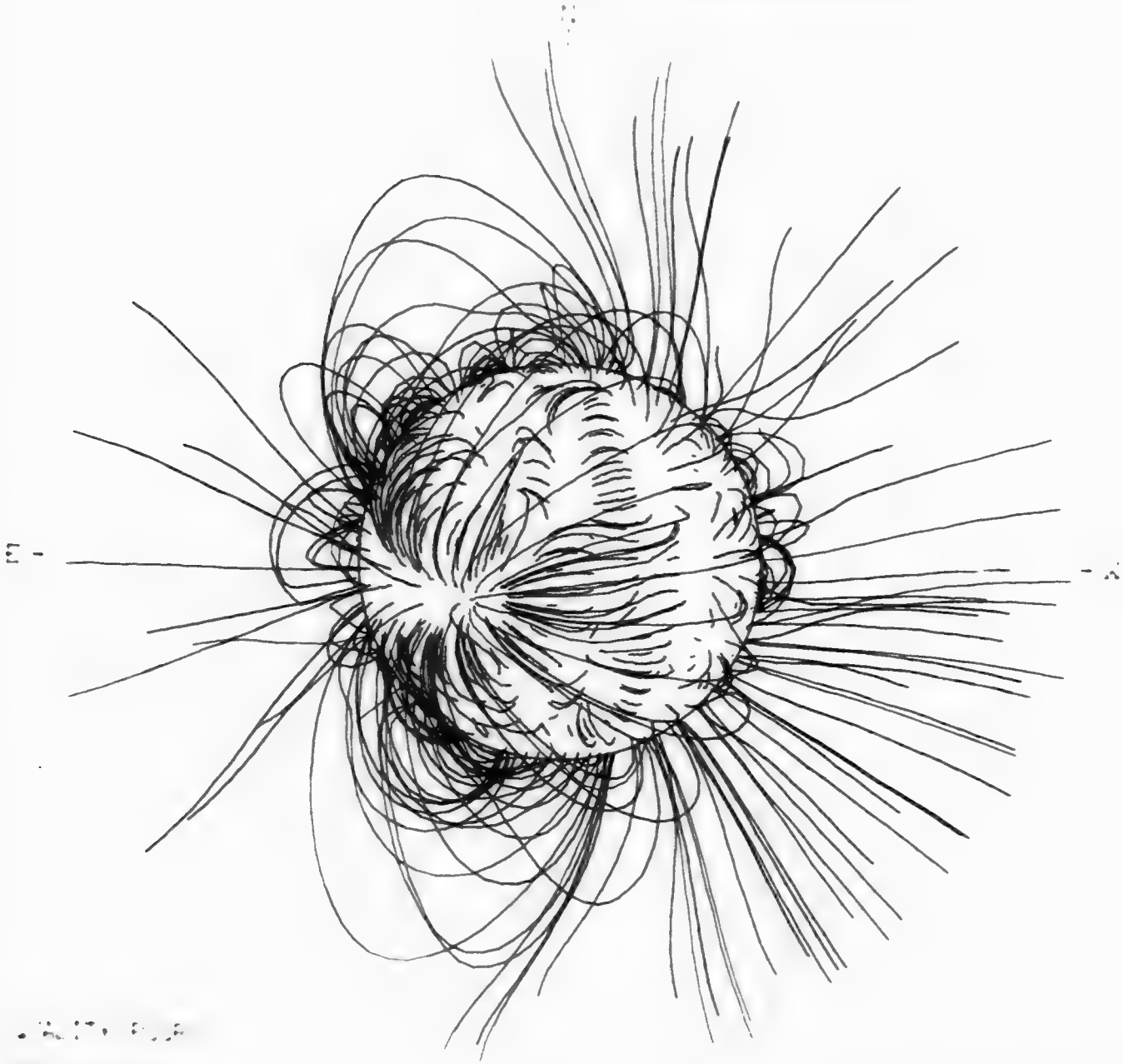
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



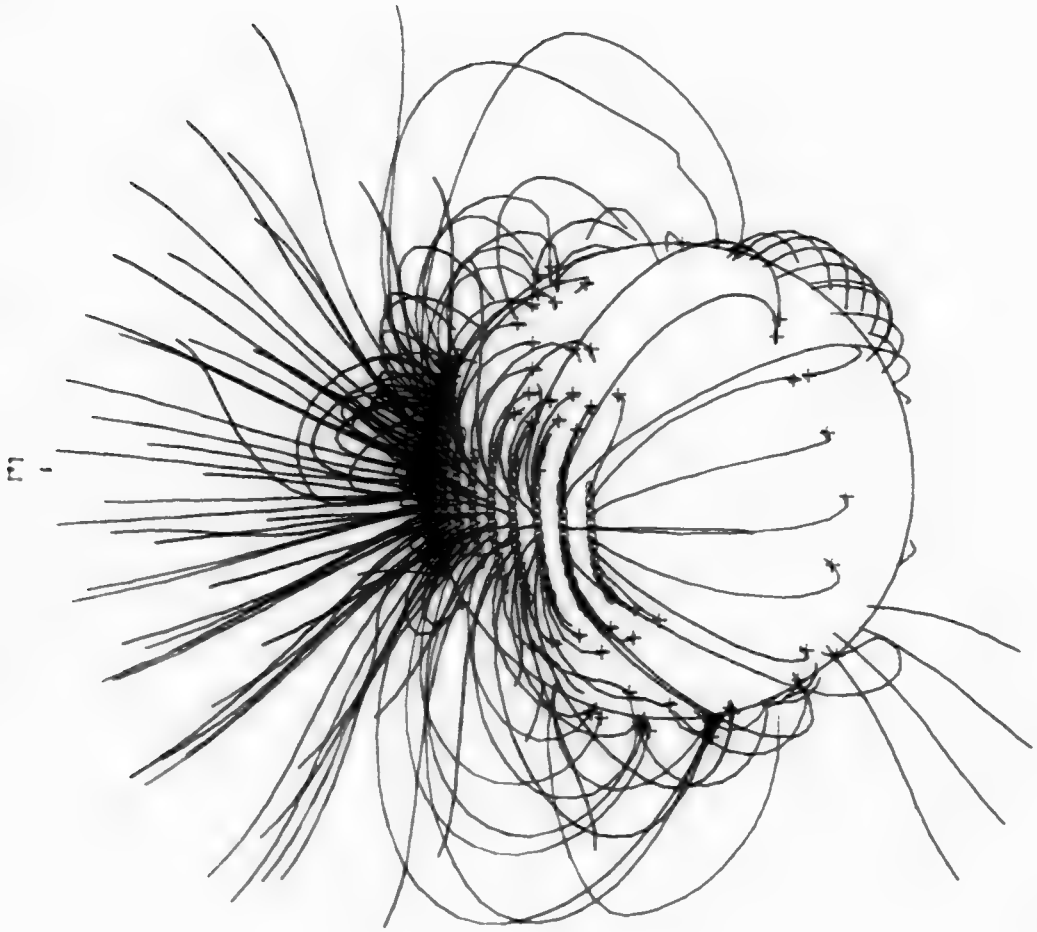
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



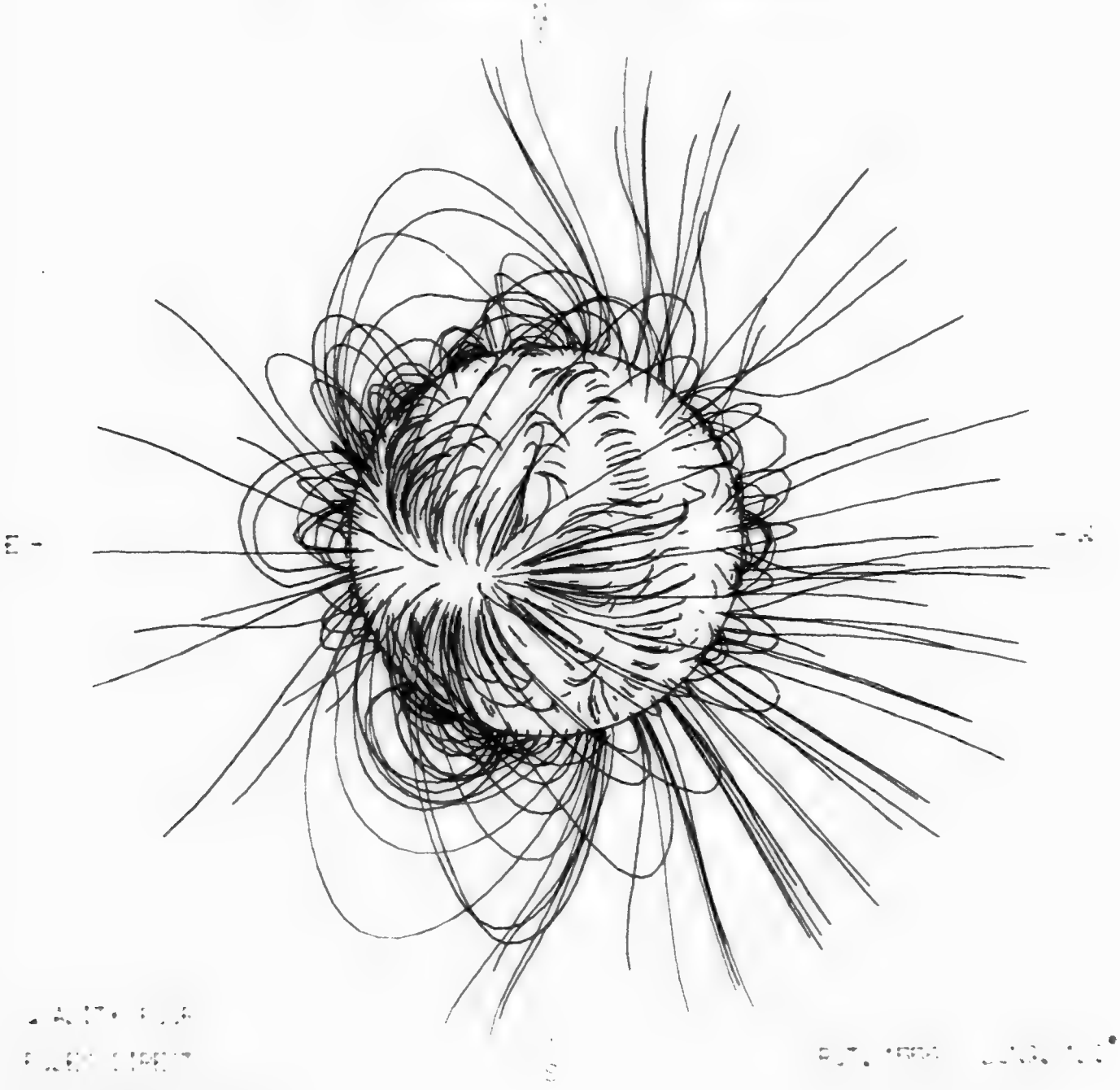
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



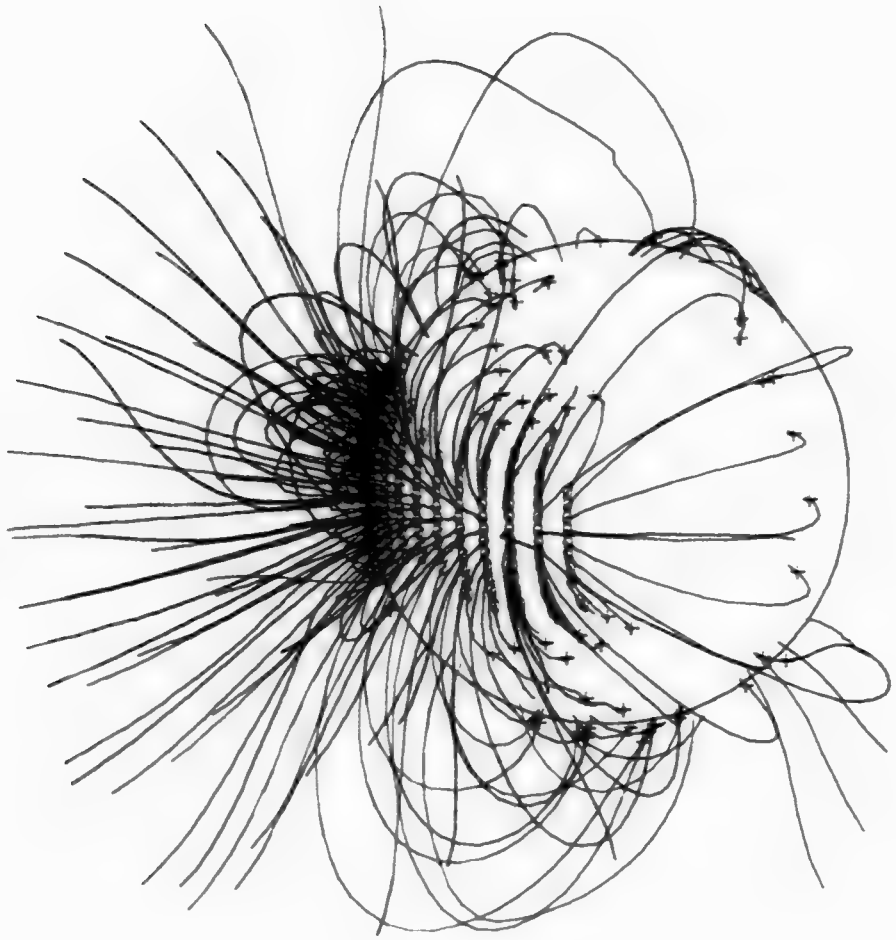
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



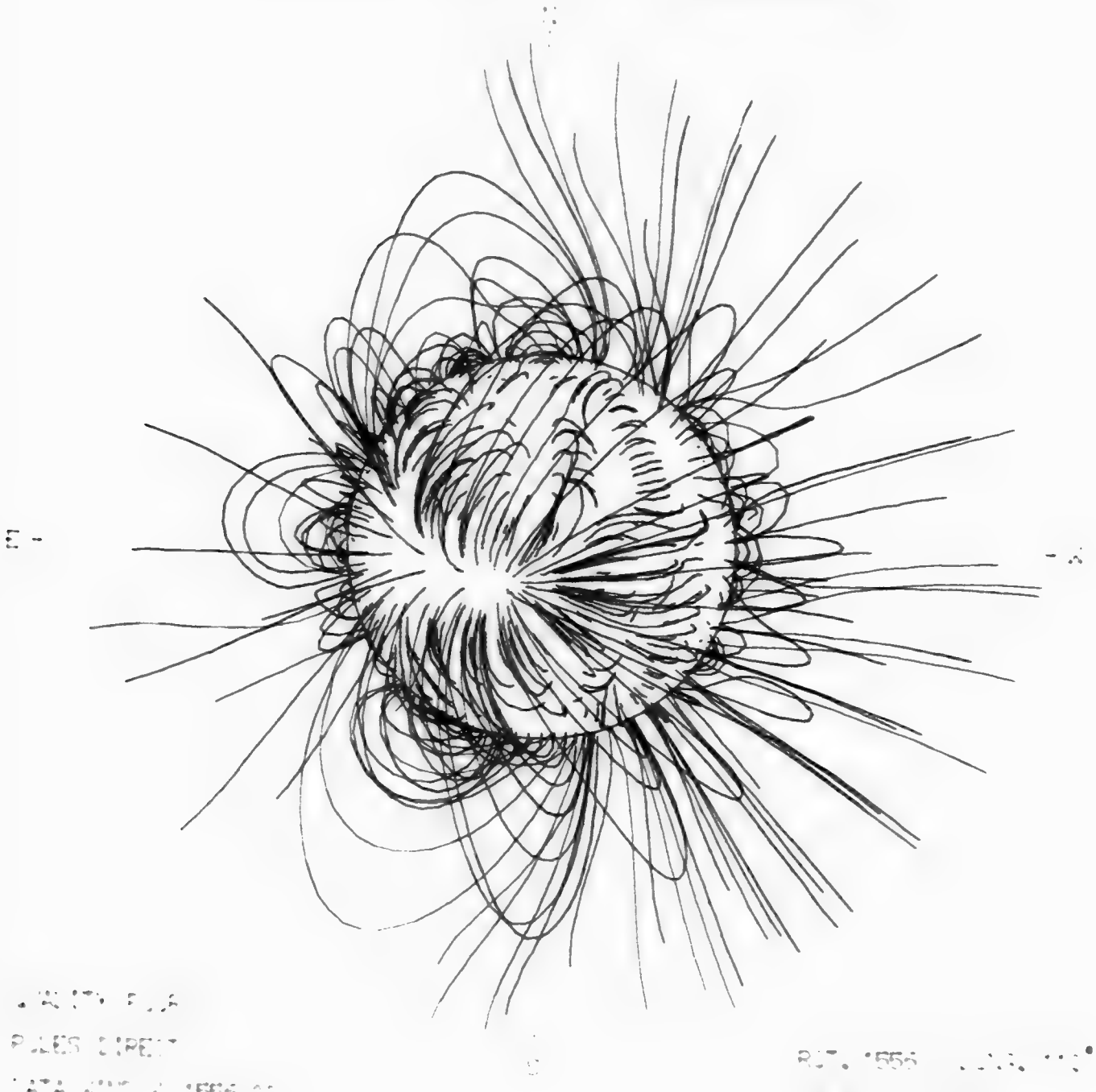
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

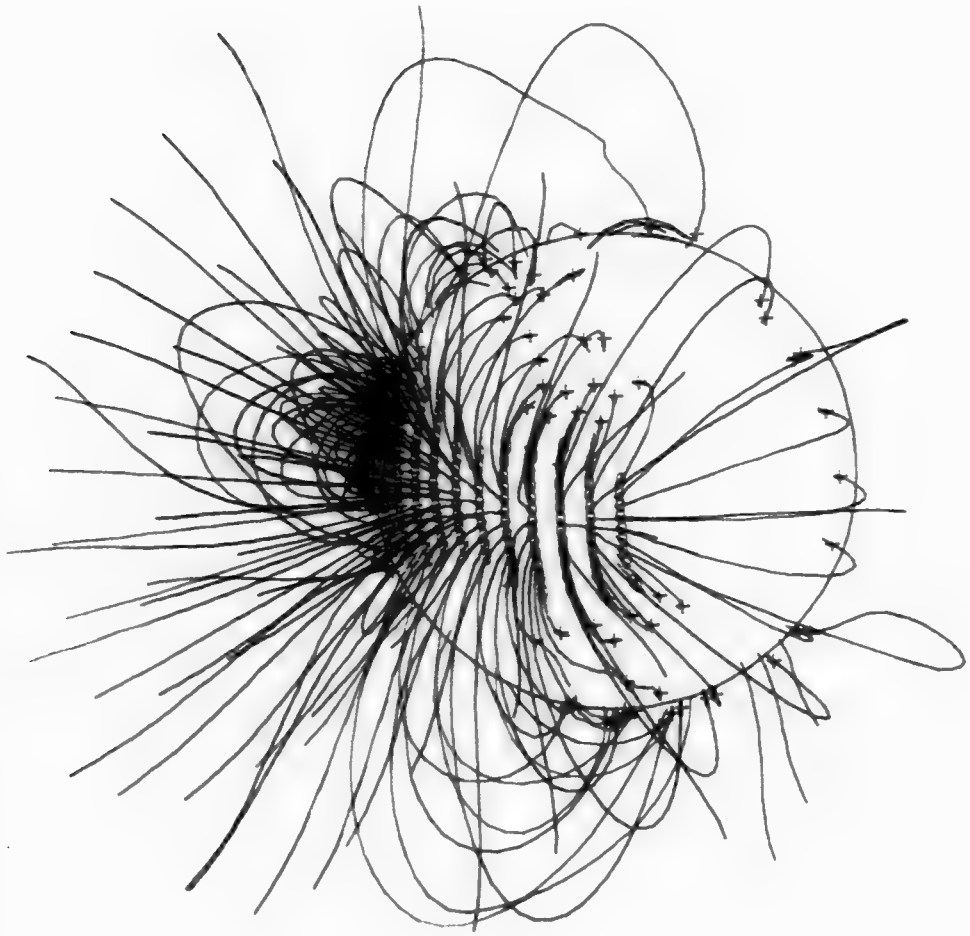


HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

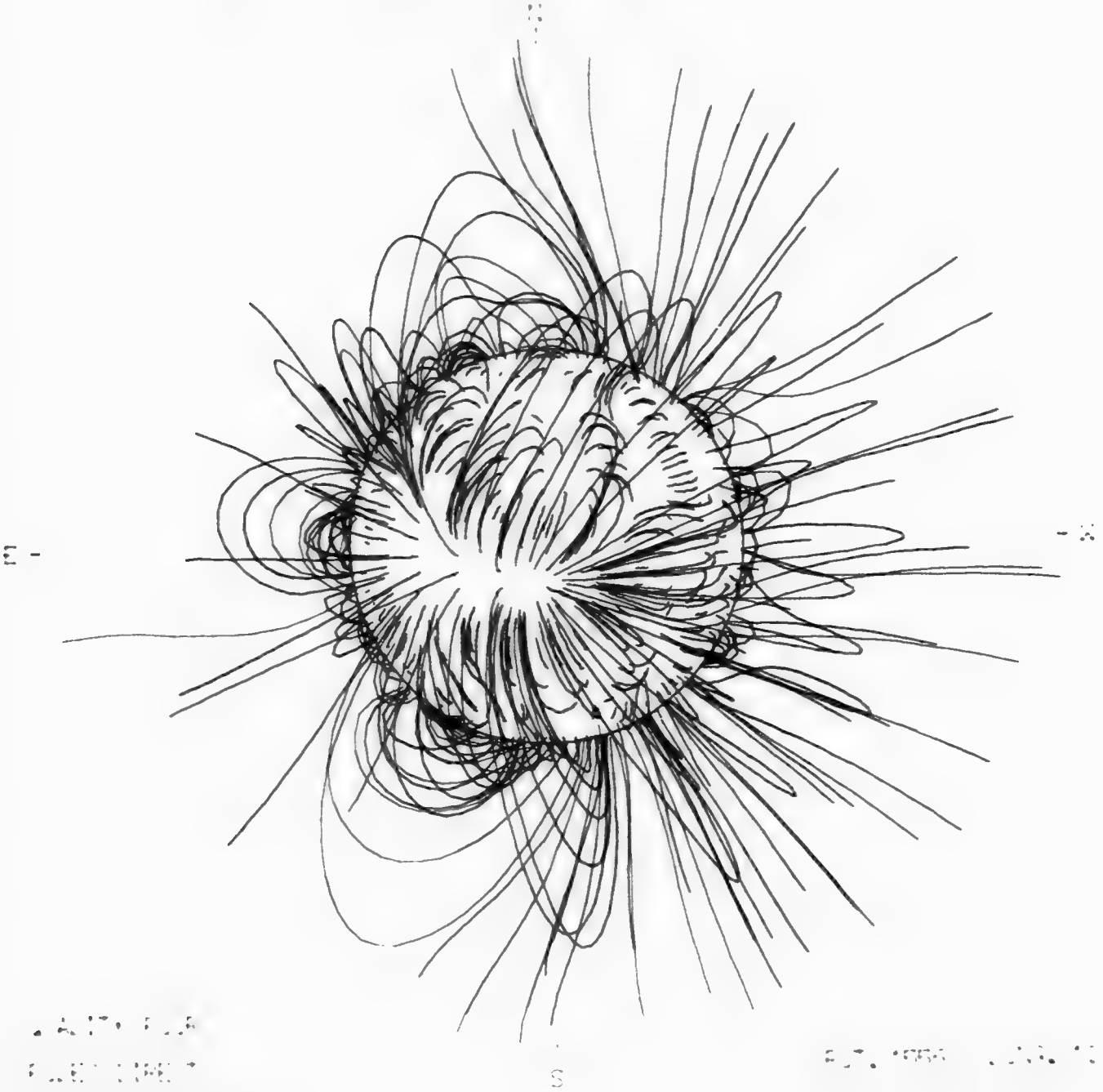


HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

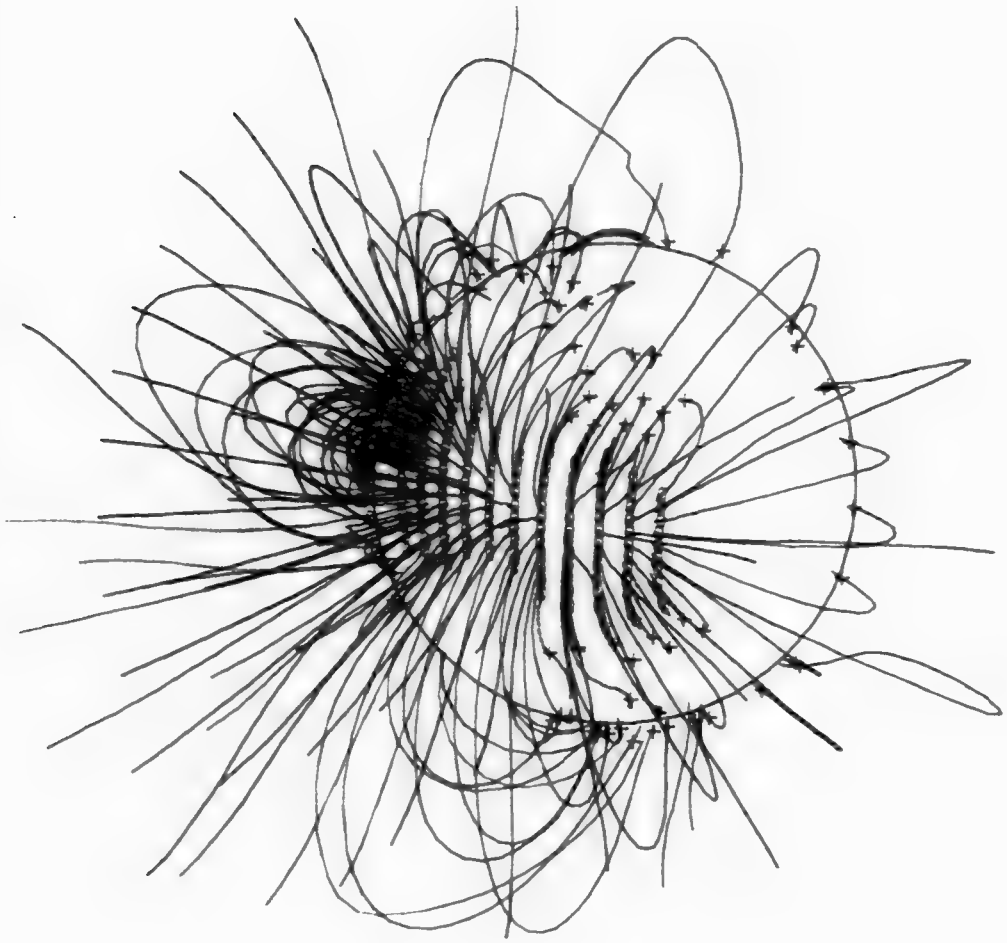




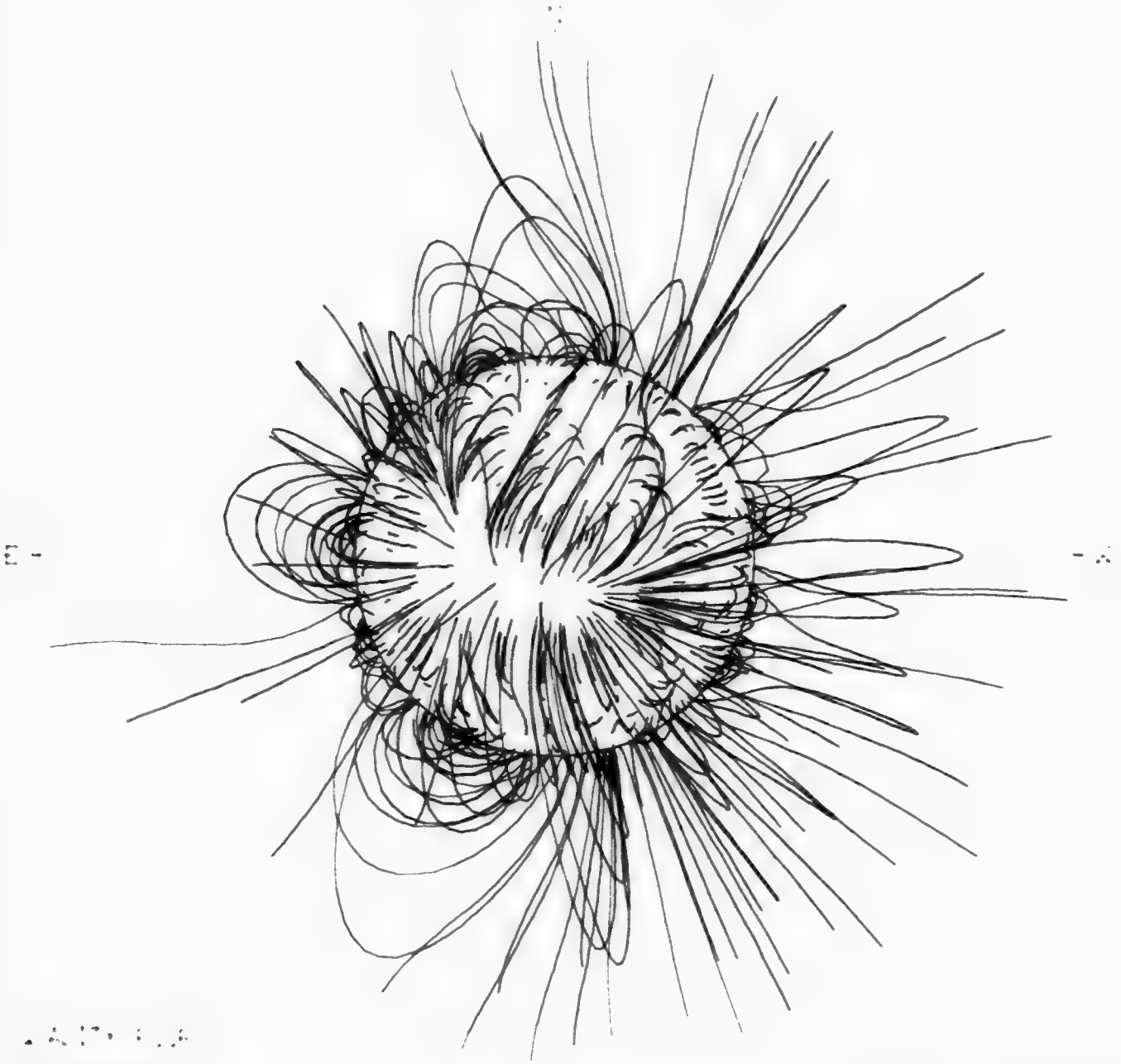
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



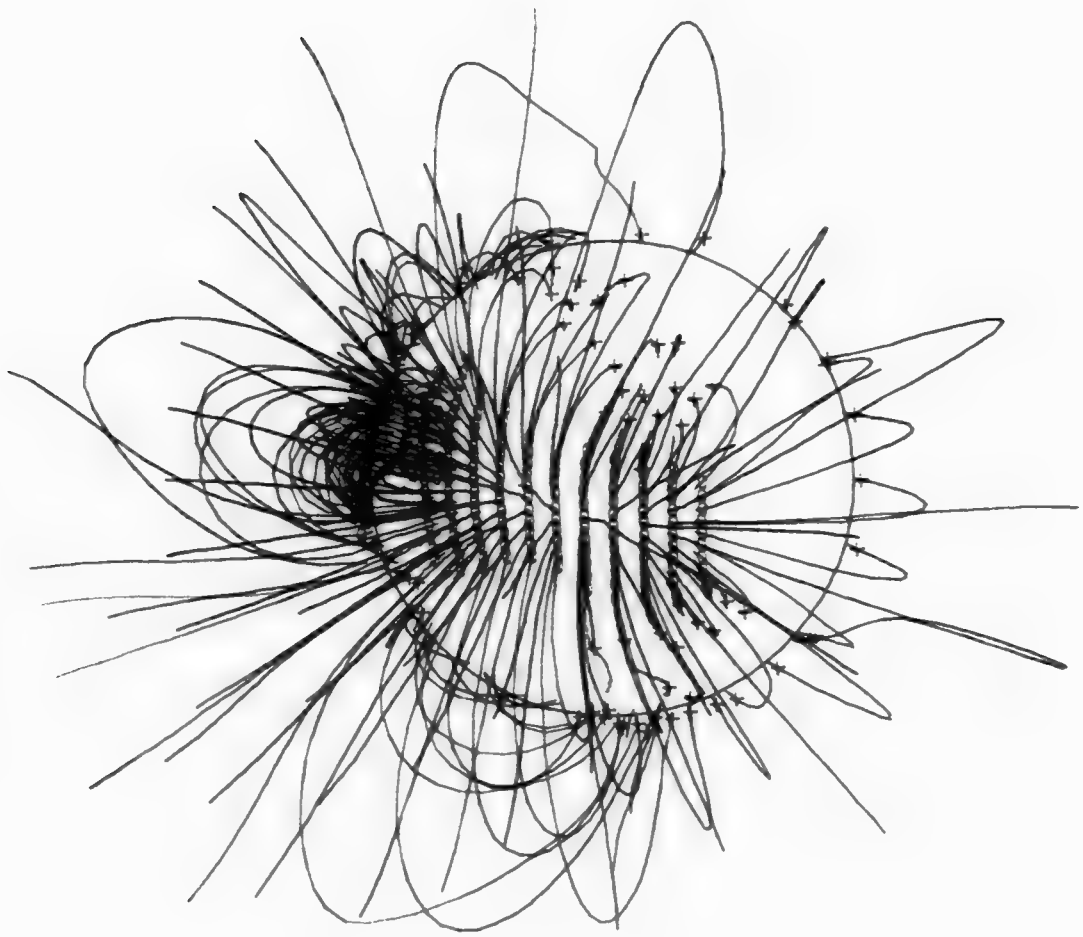
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



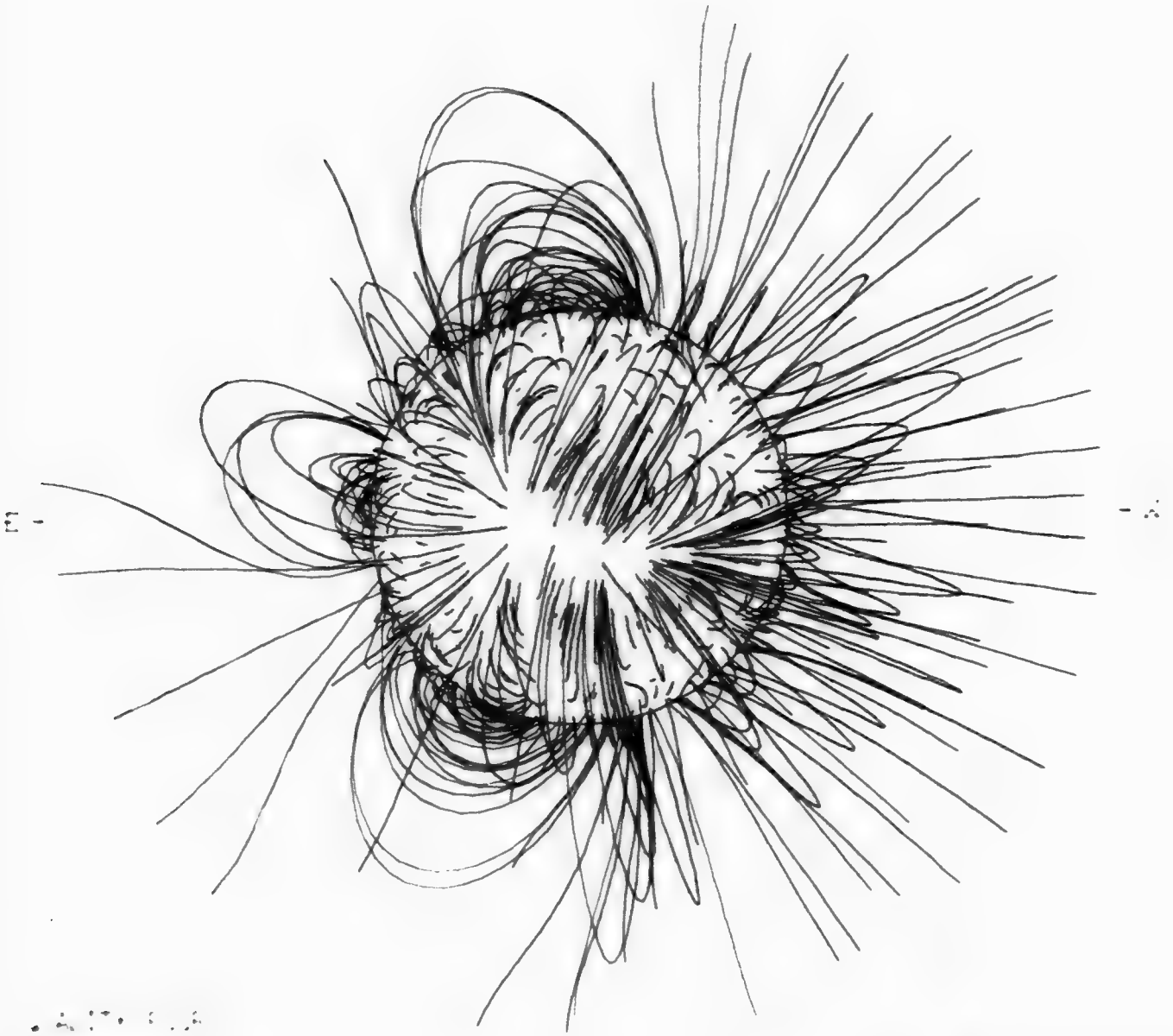
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



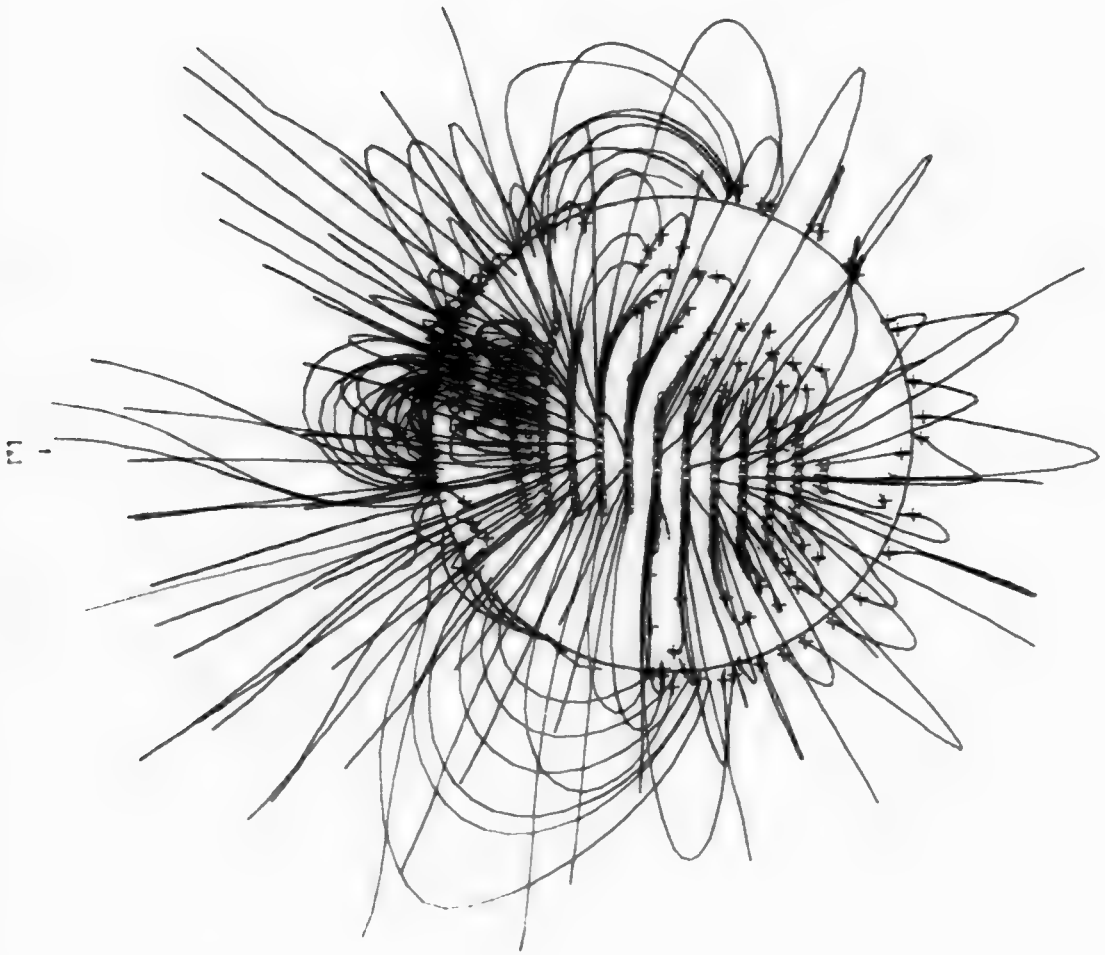
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



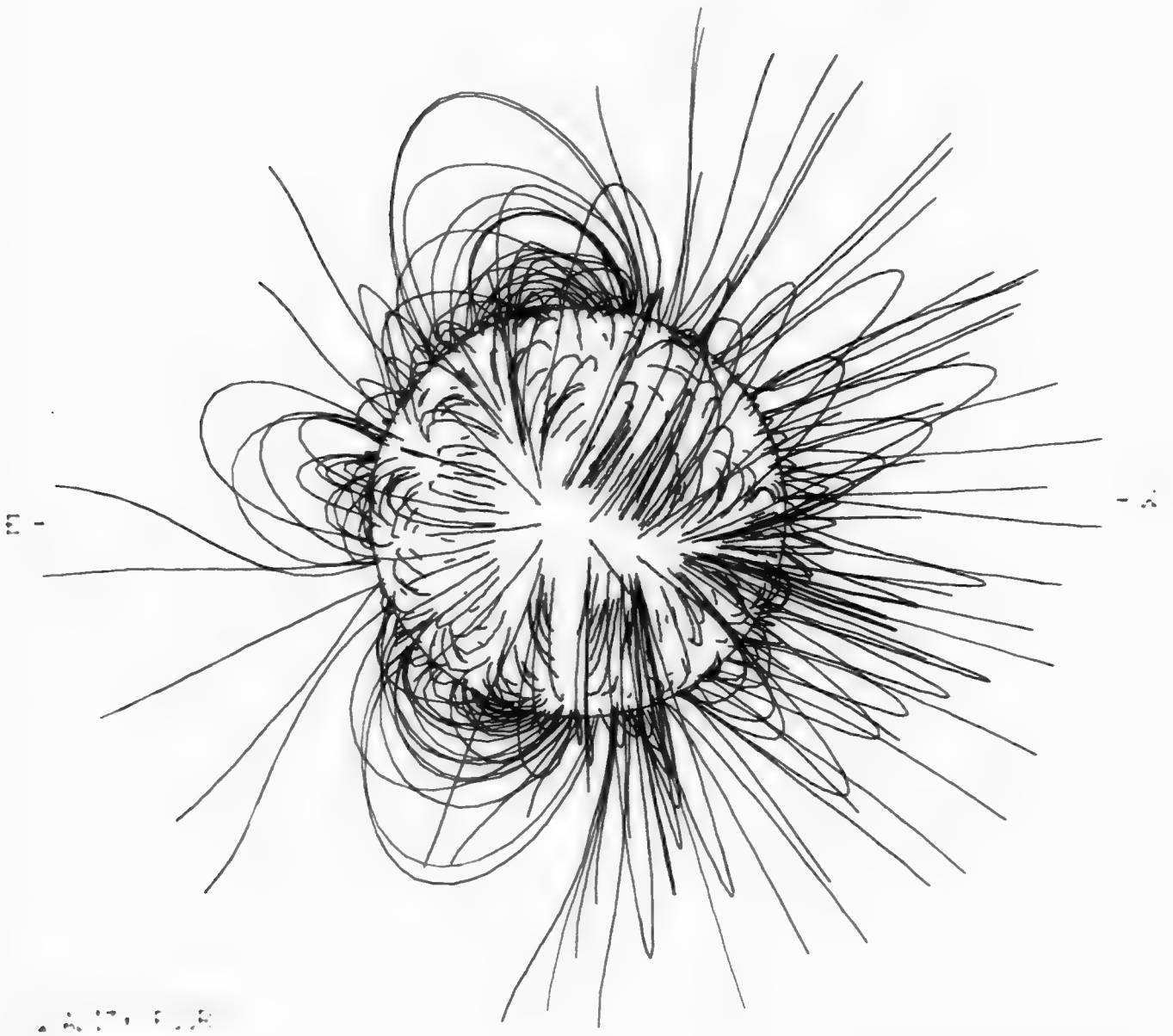
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



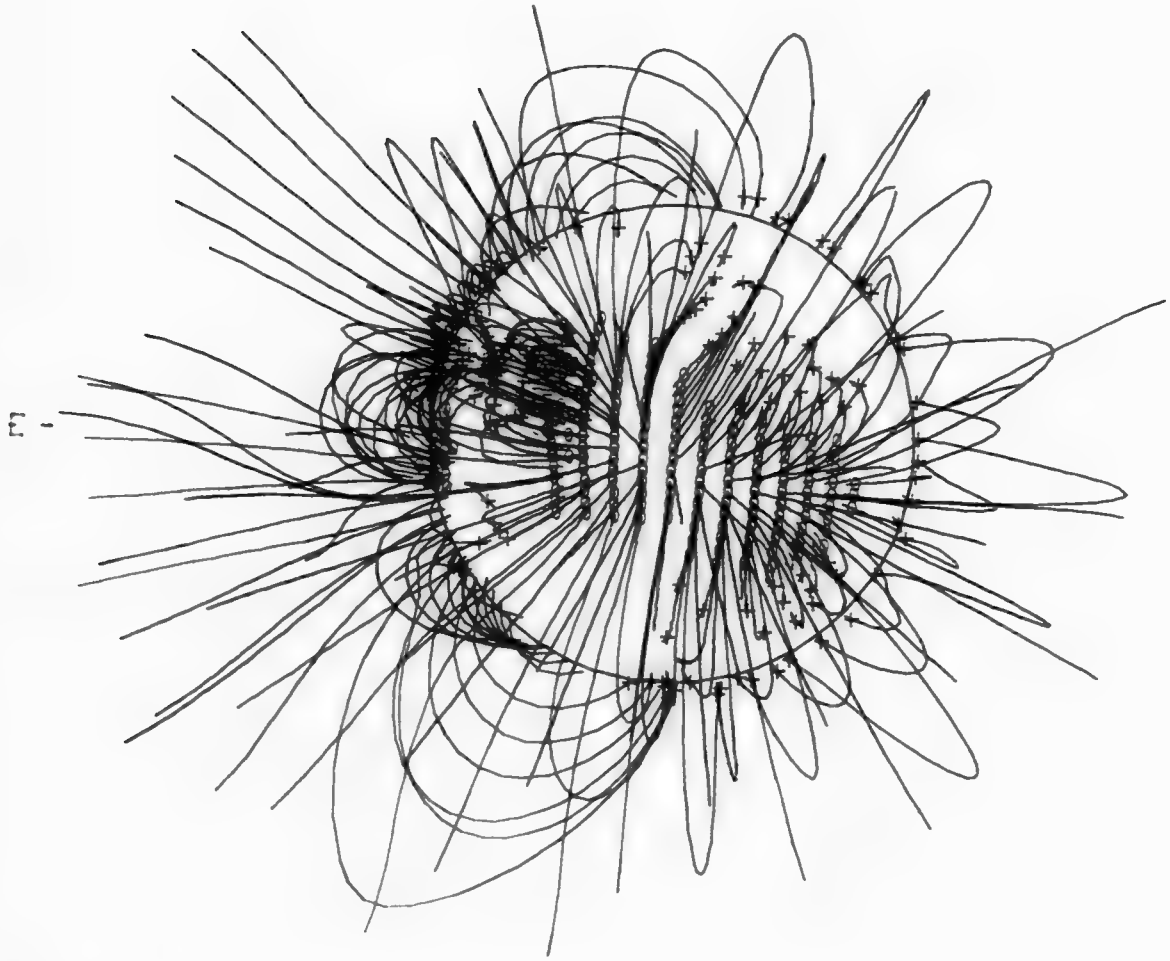
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



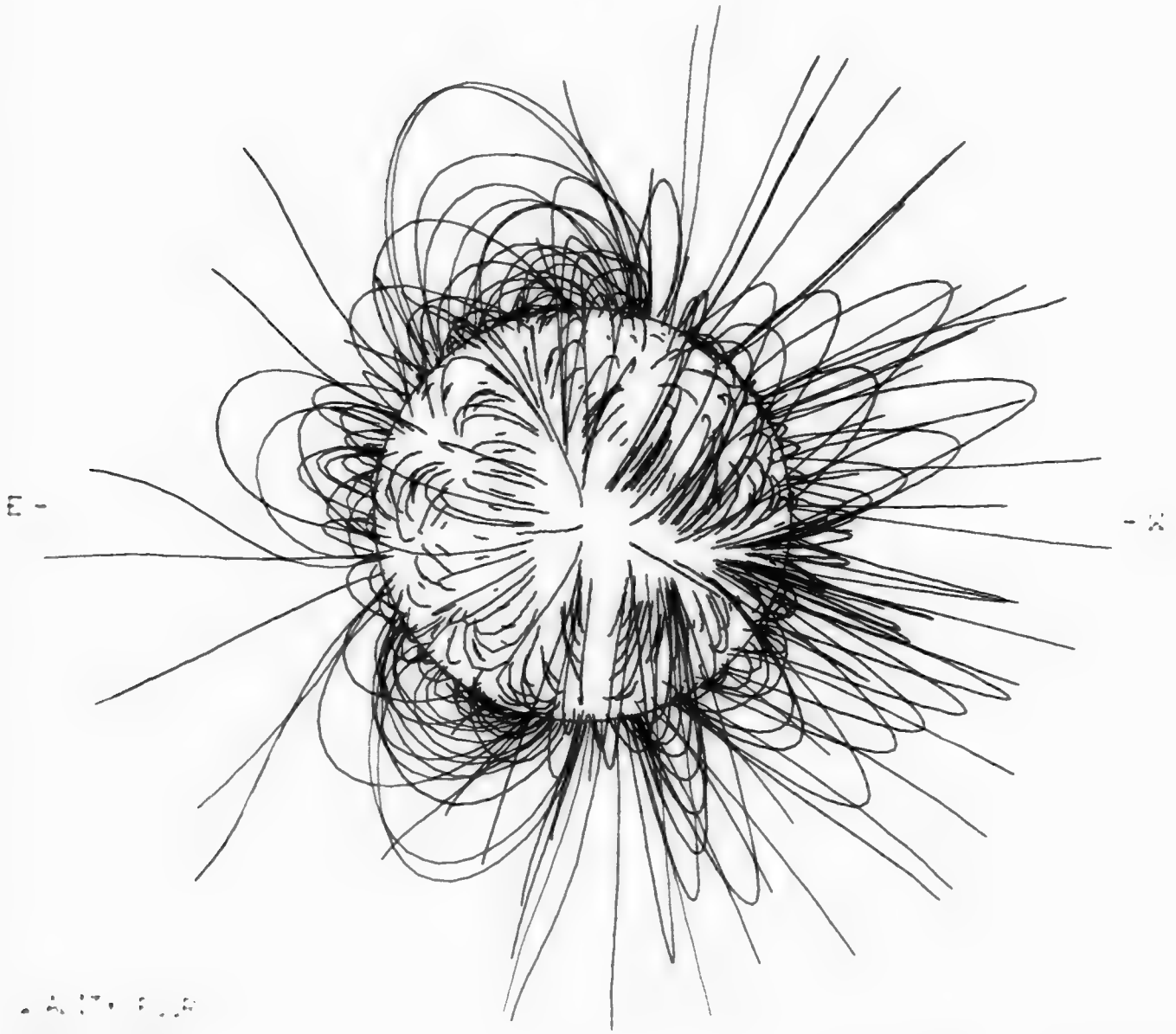
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



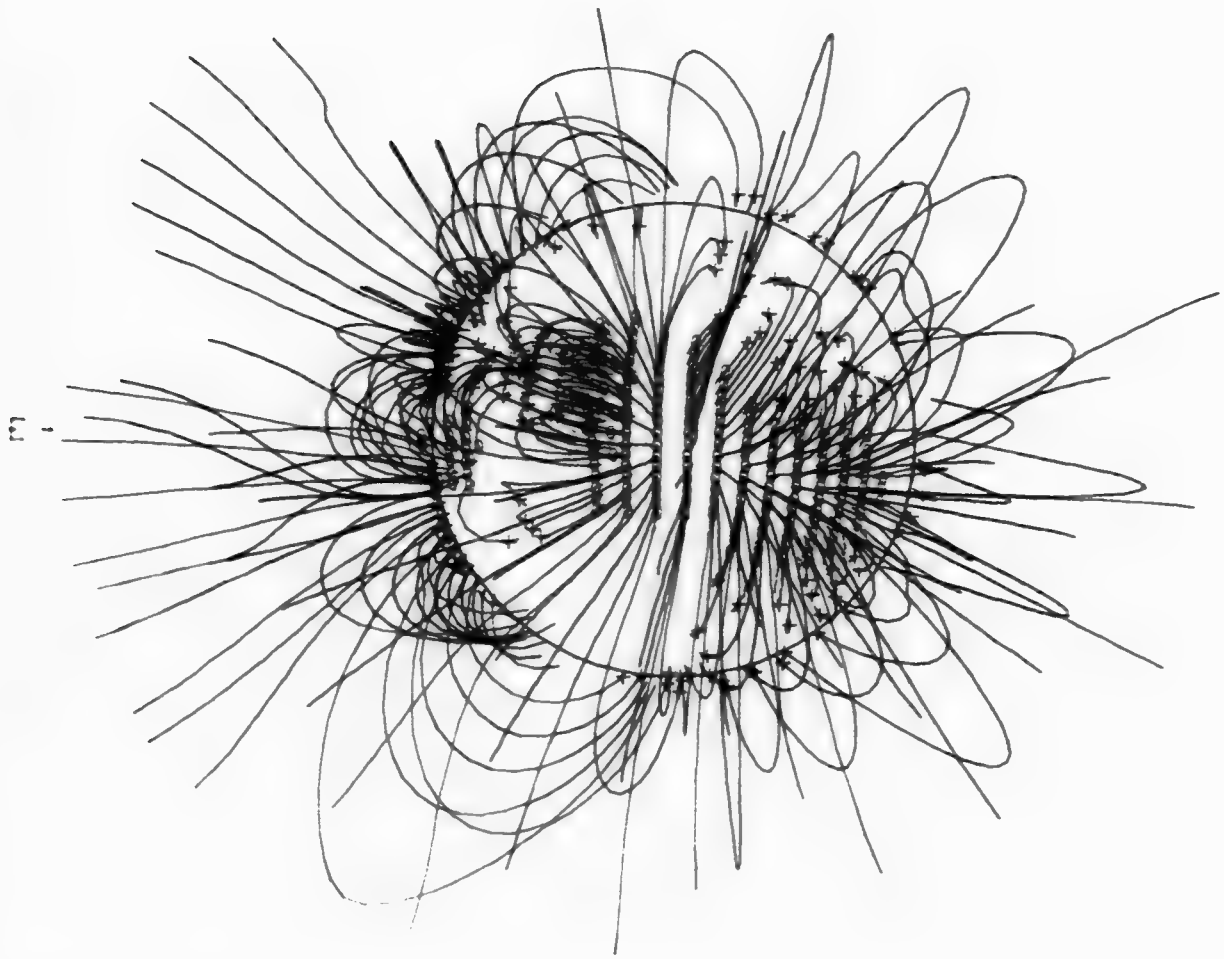
POLES DIRECT

ROT. 1555

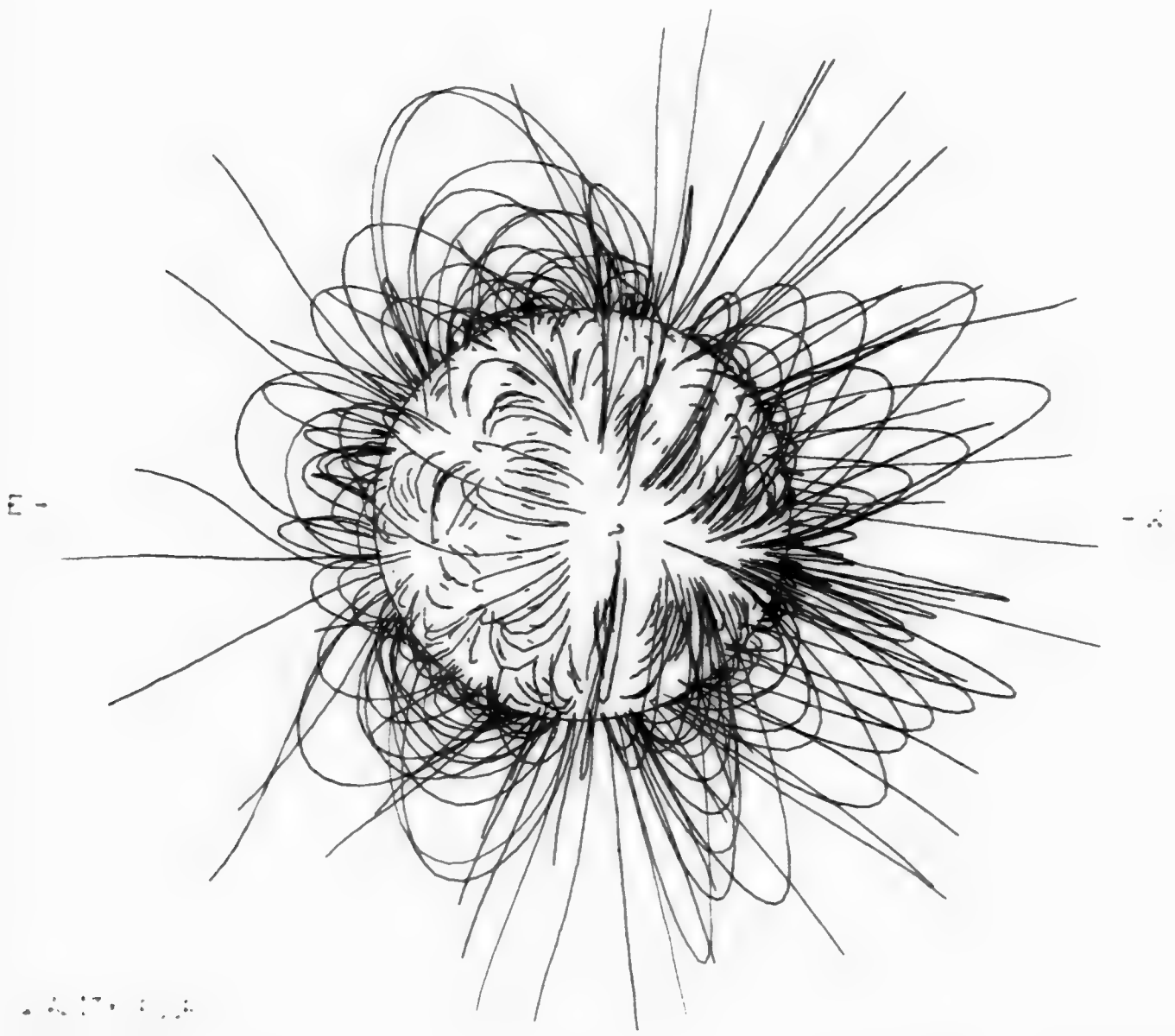
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



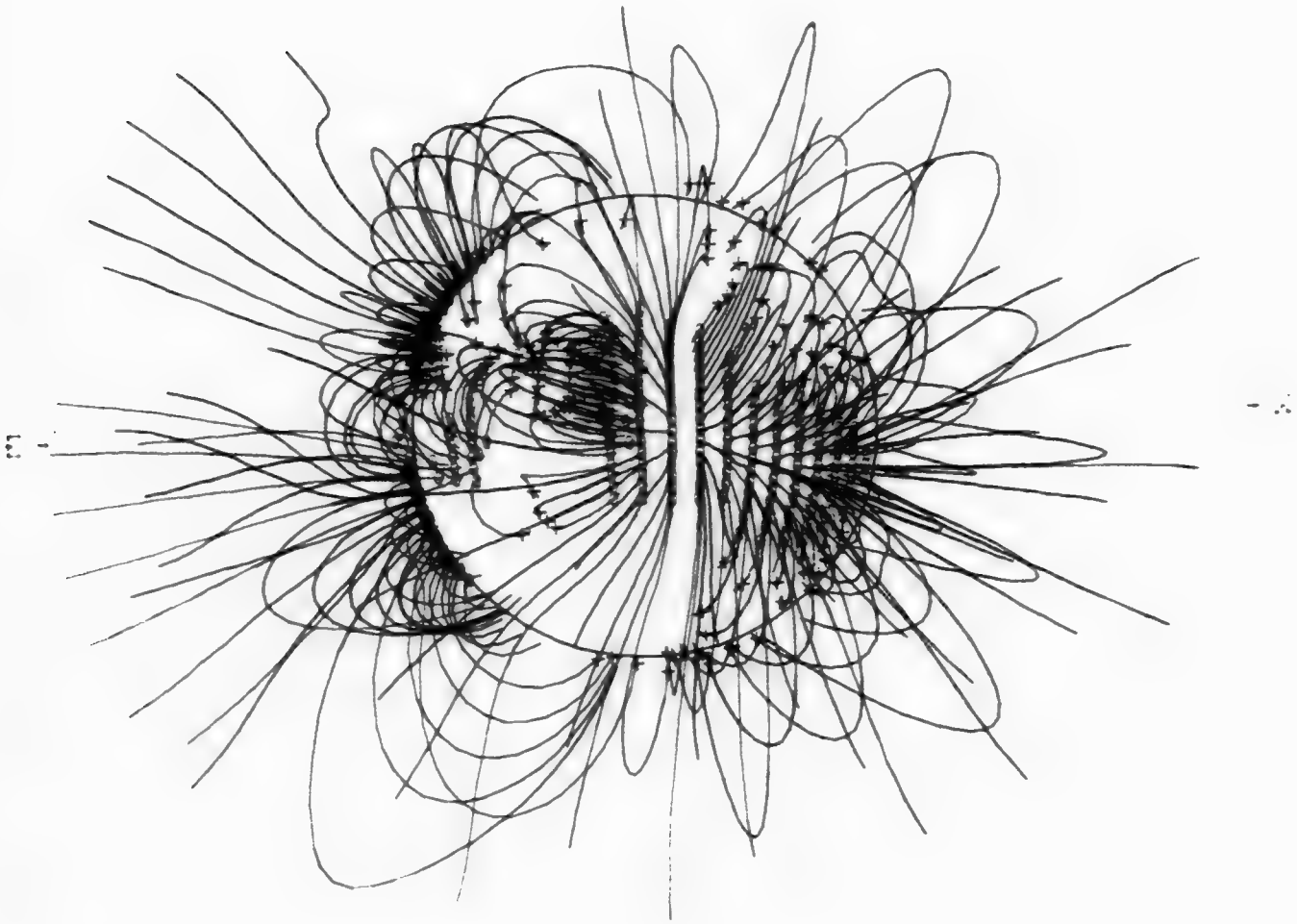
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



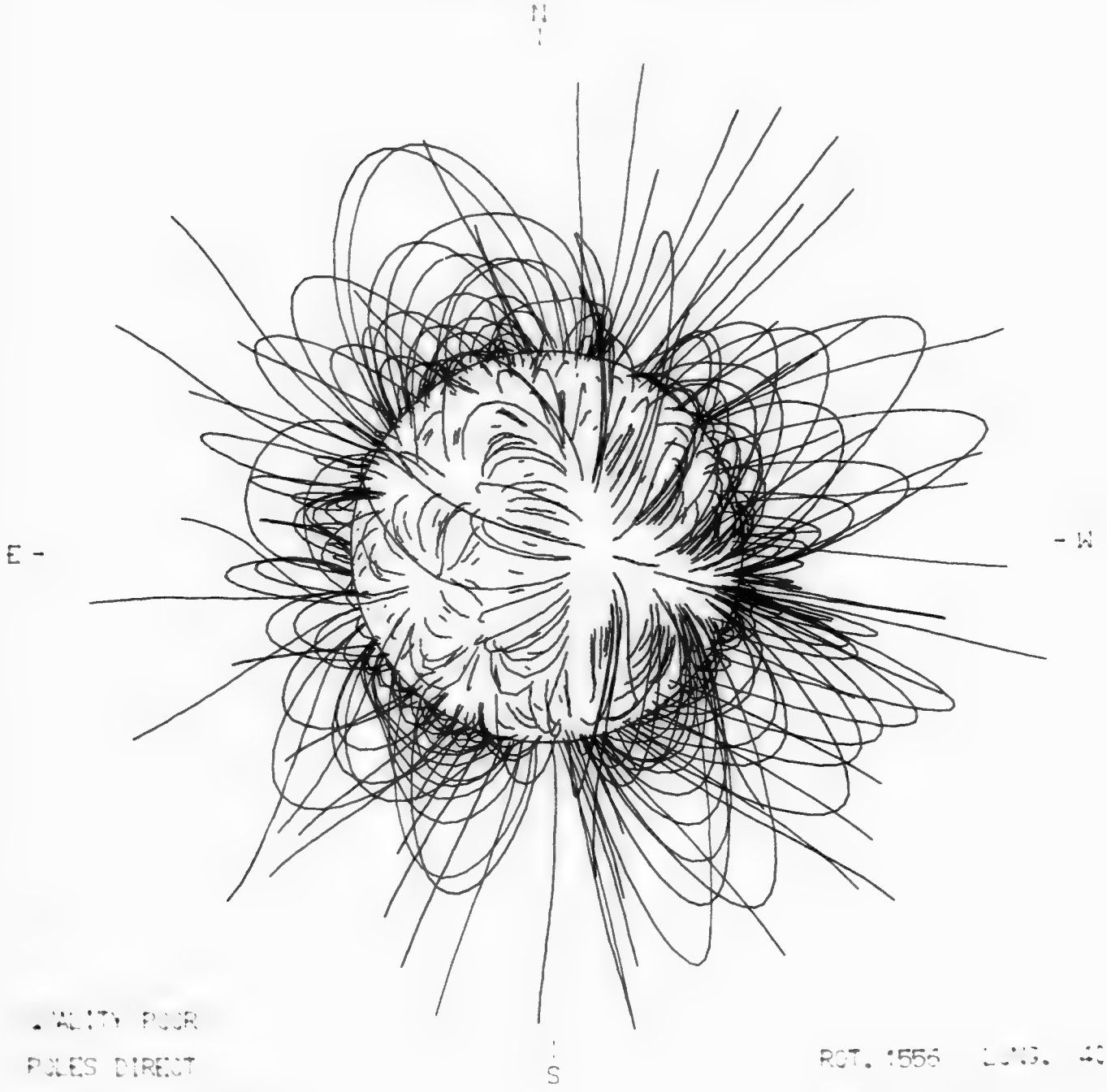
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



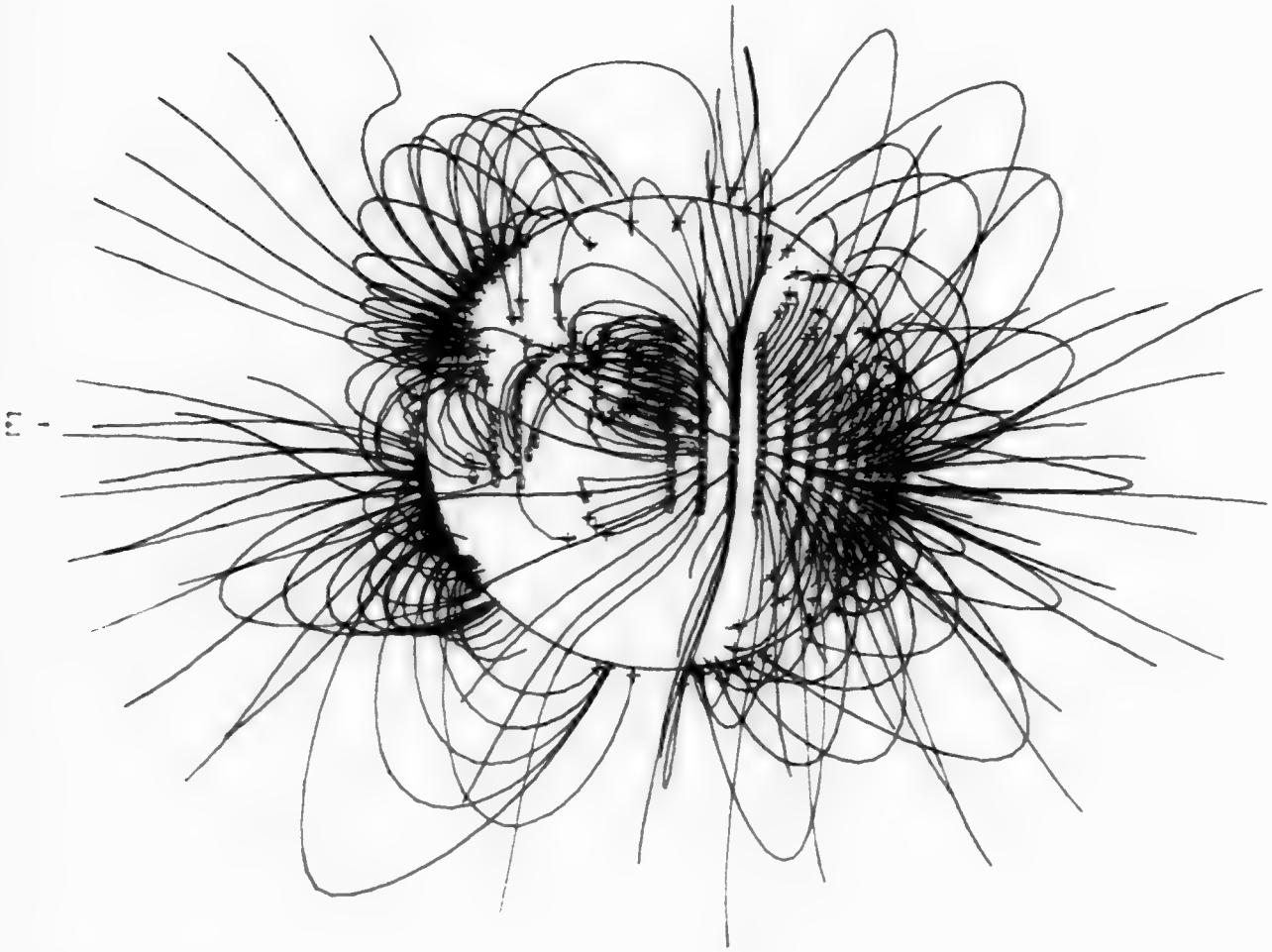
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



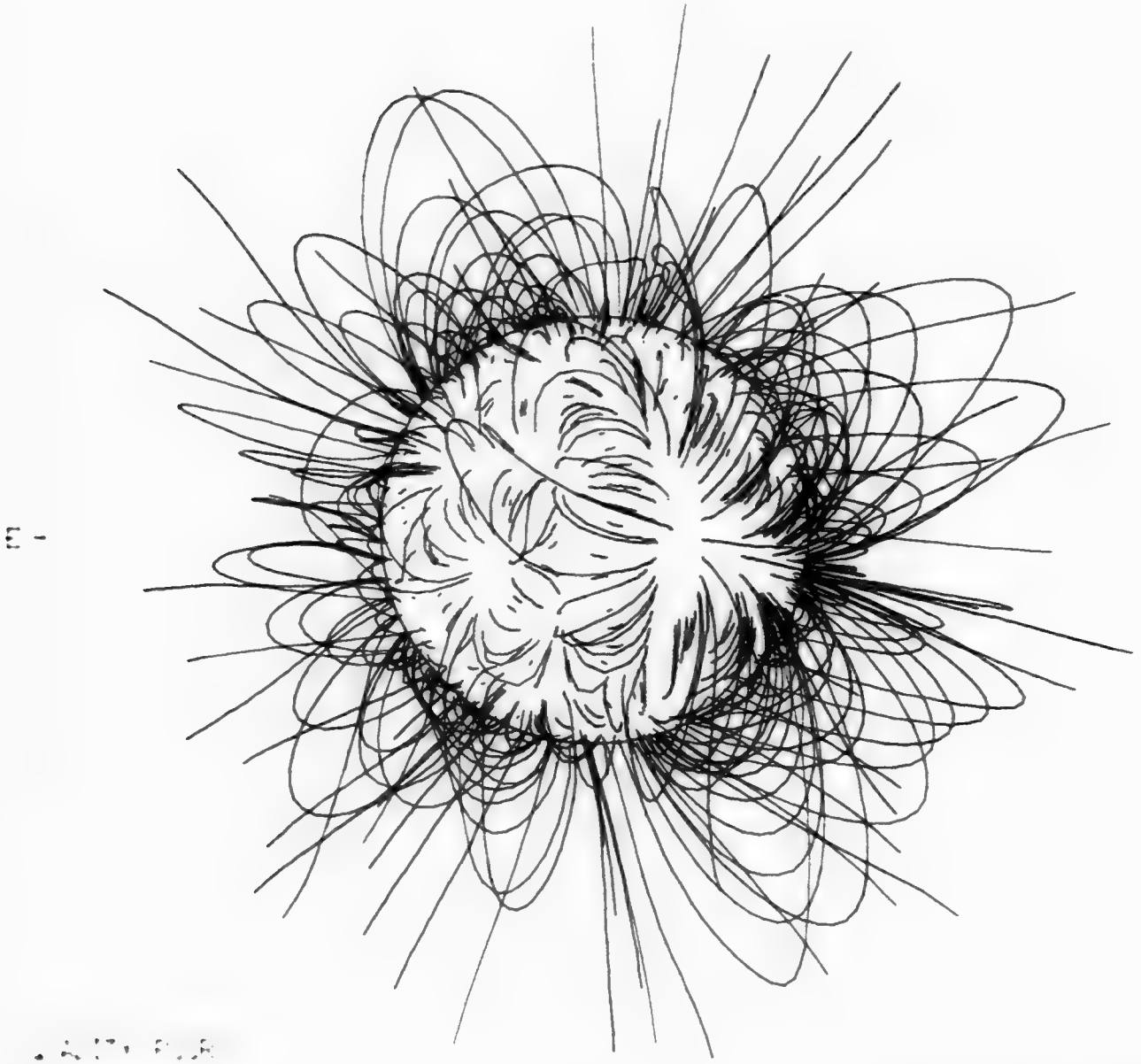
- ALITY POOR
POLES DIRECT
DATA AT 0.4 AU 1556. "

ROT. 1556 LONG. 40°
18.2 JAN 1971

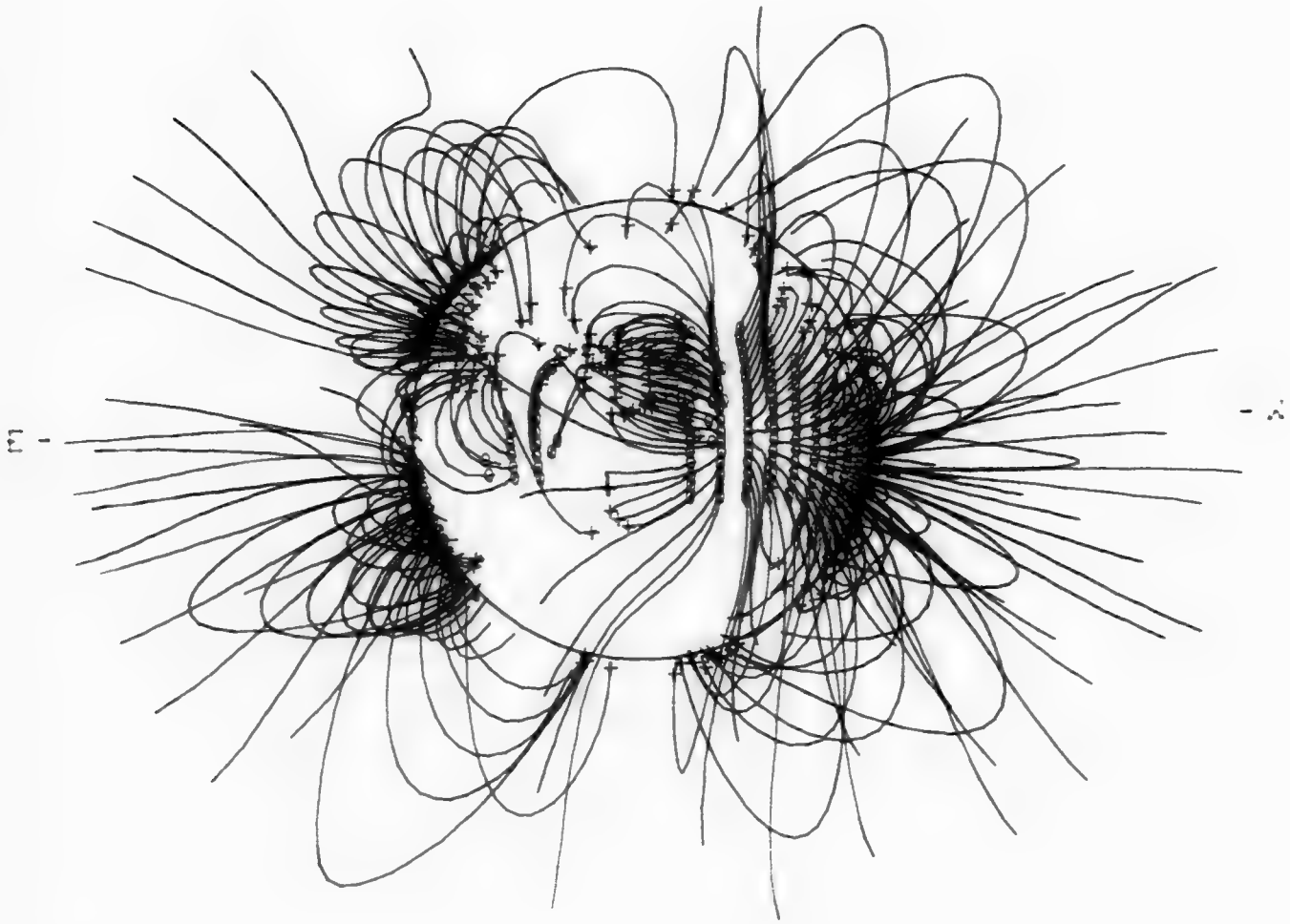
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



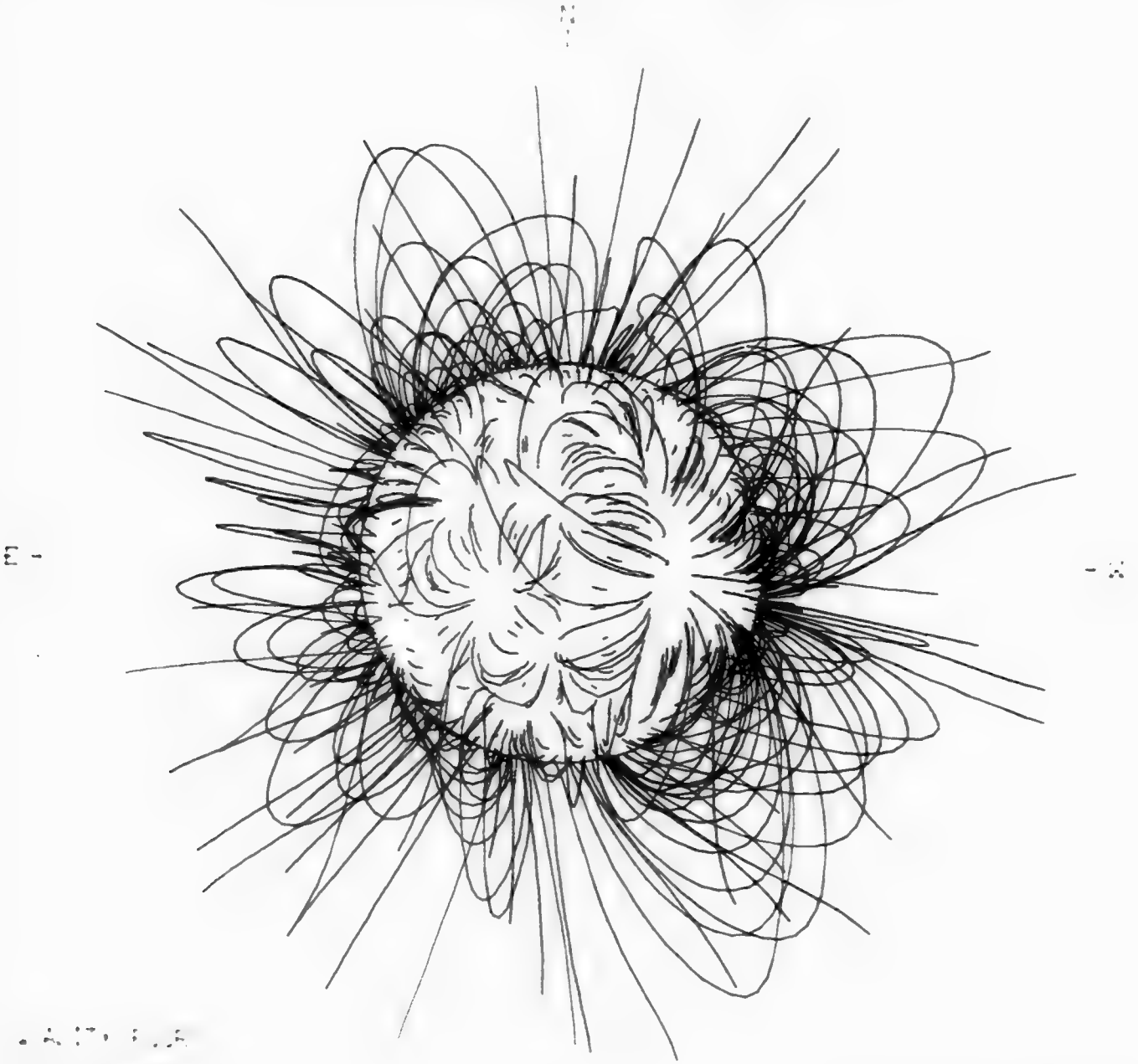
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



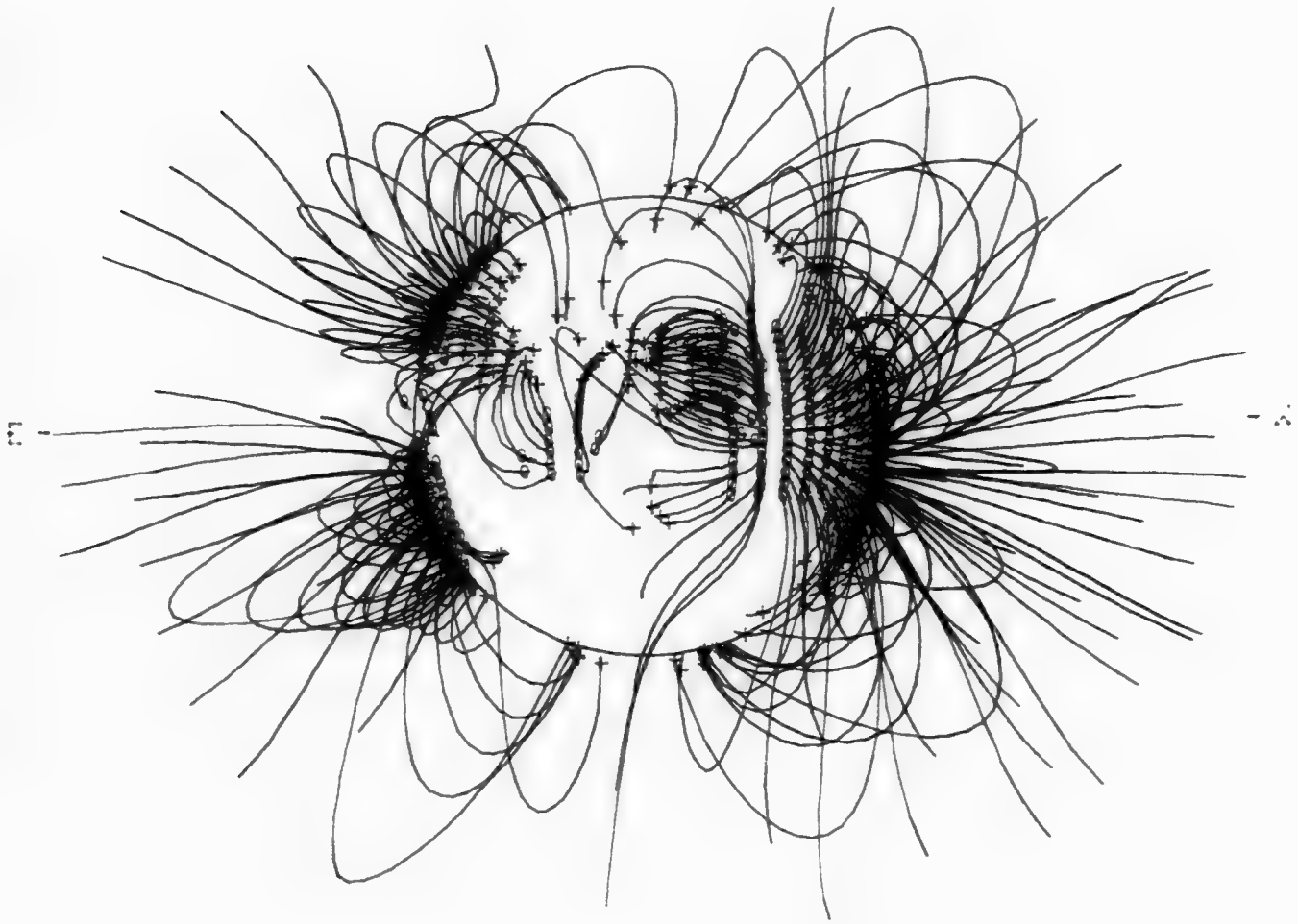
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



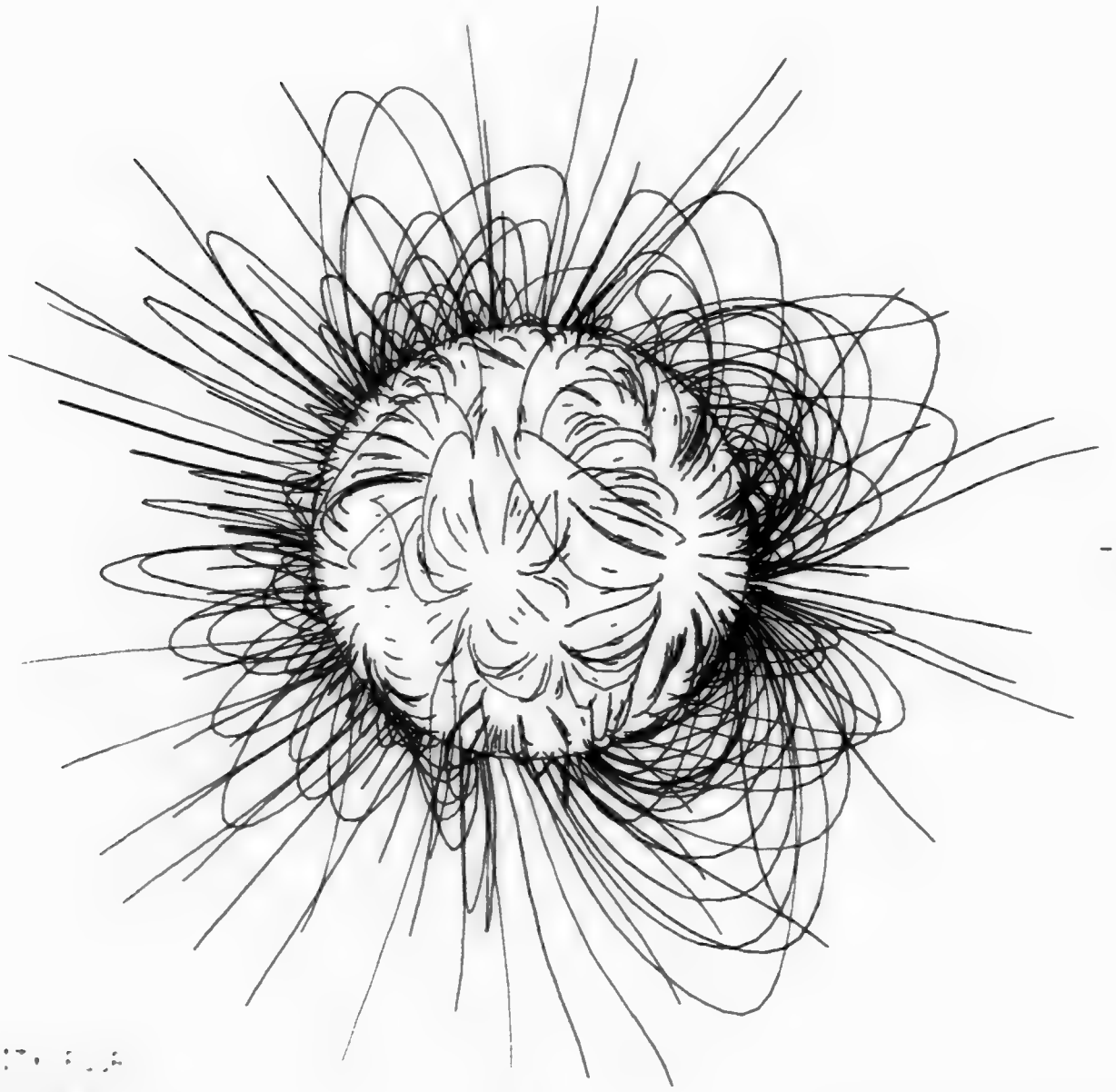
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



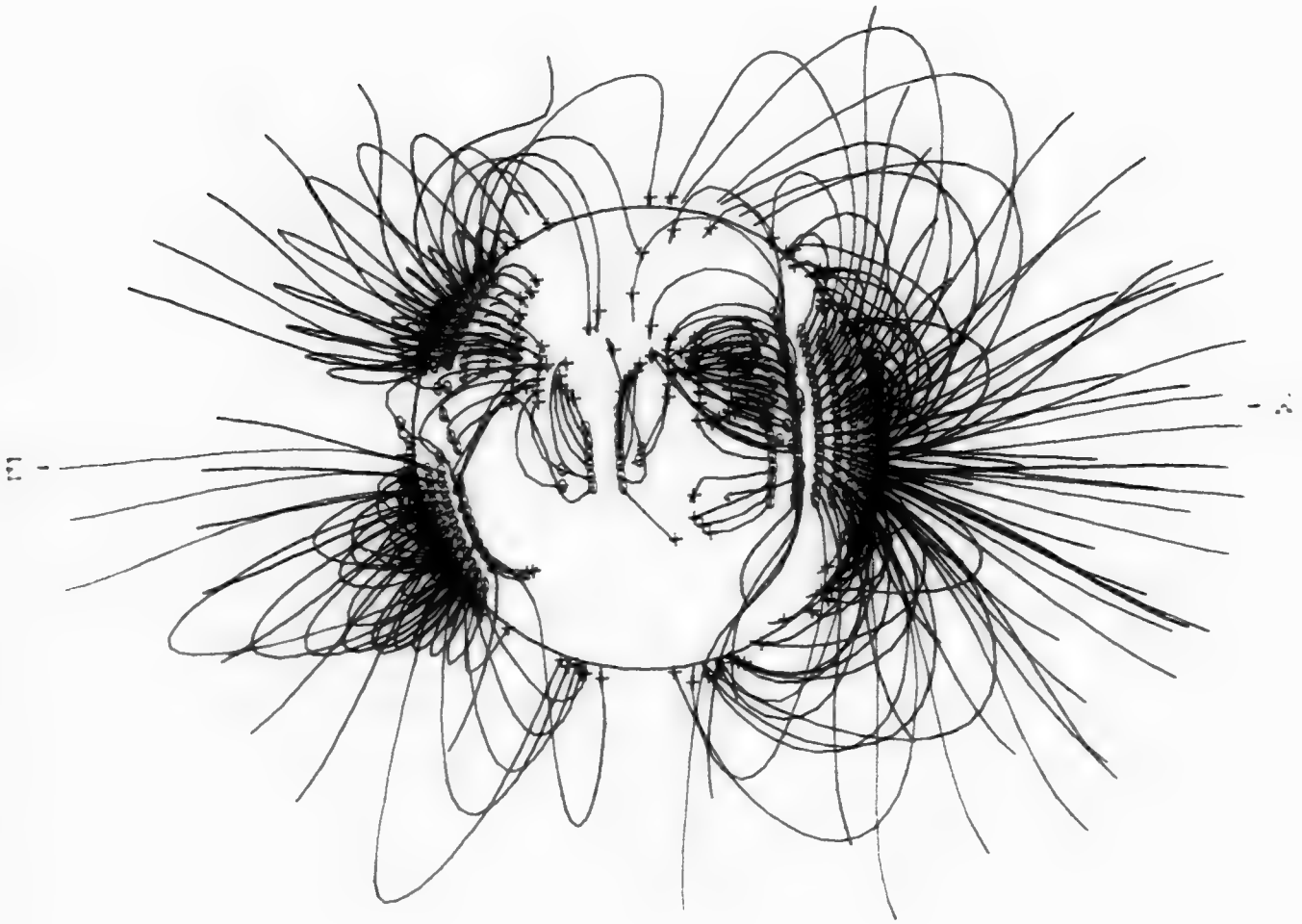
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



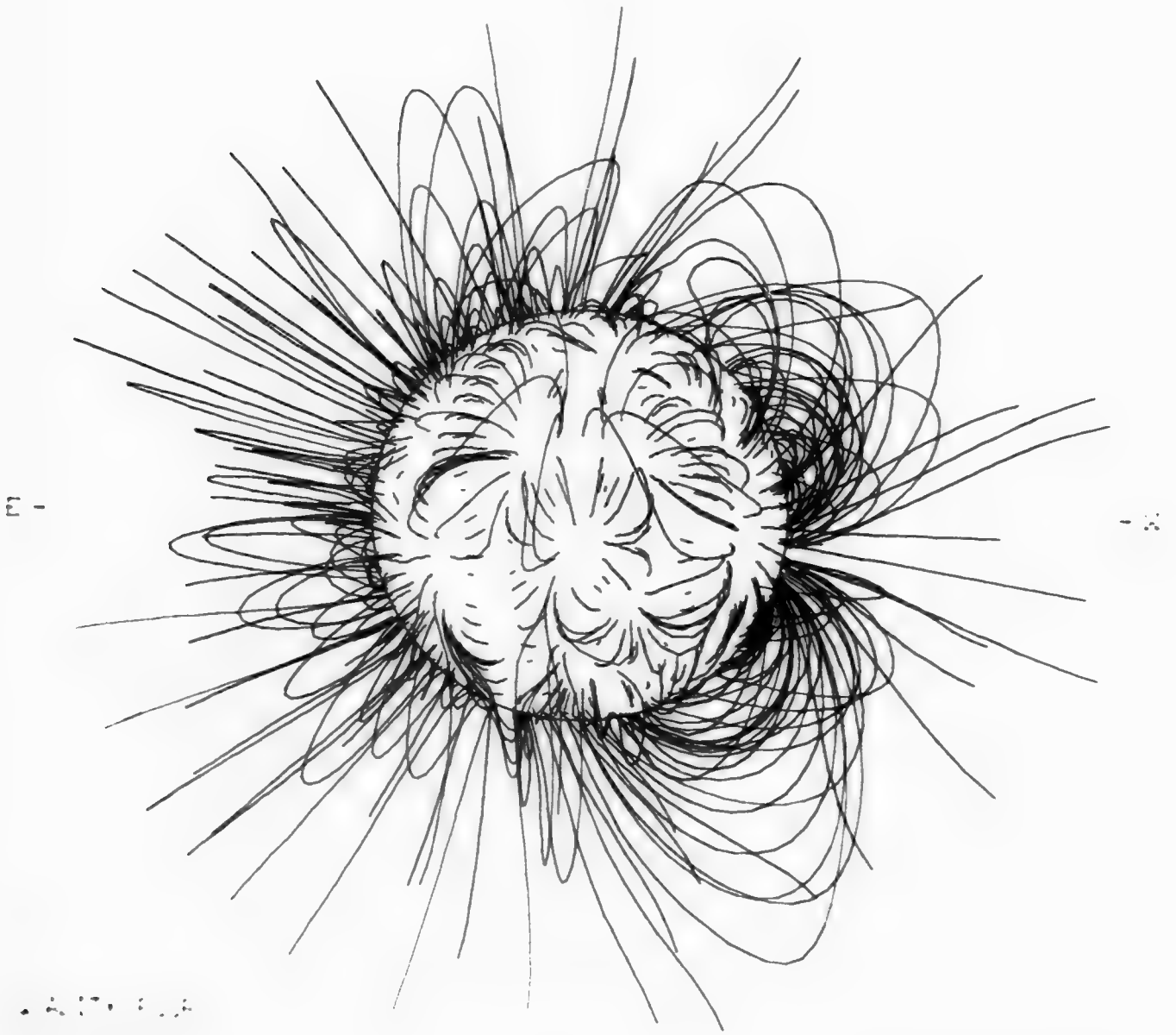
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



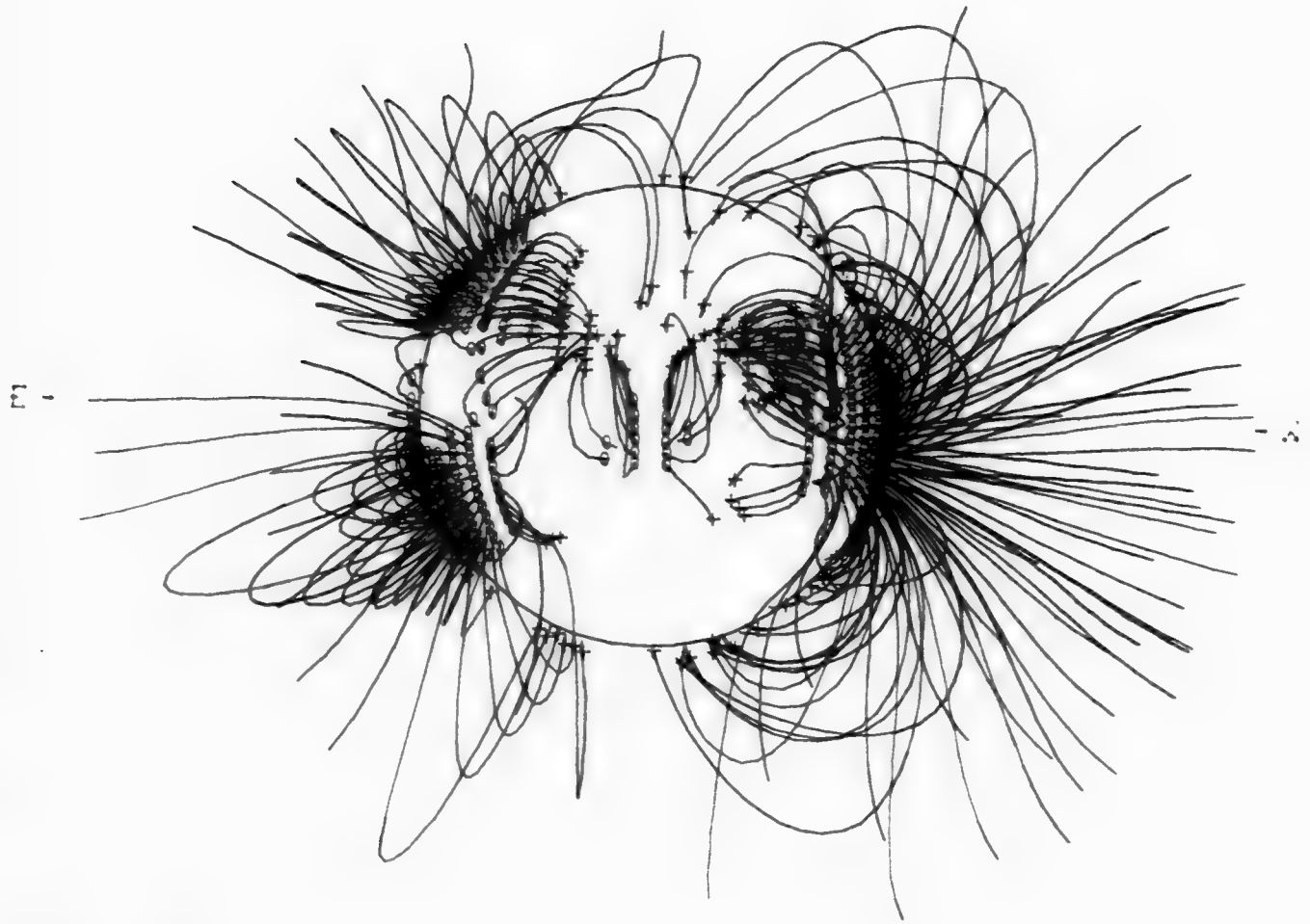
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



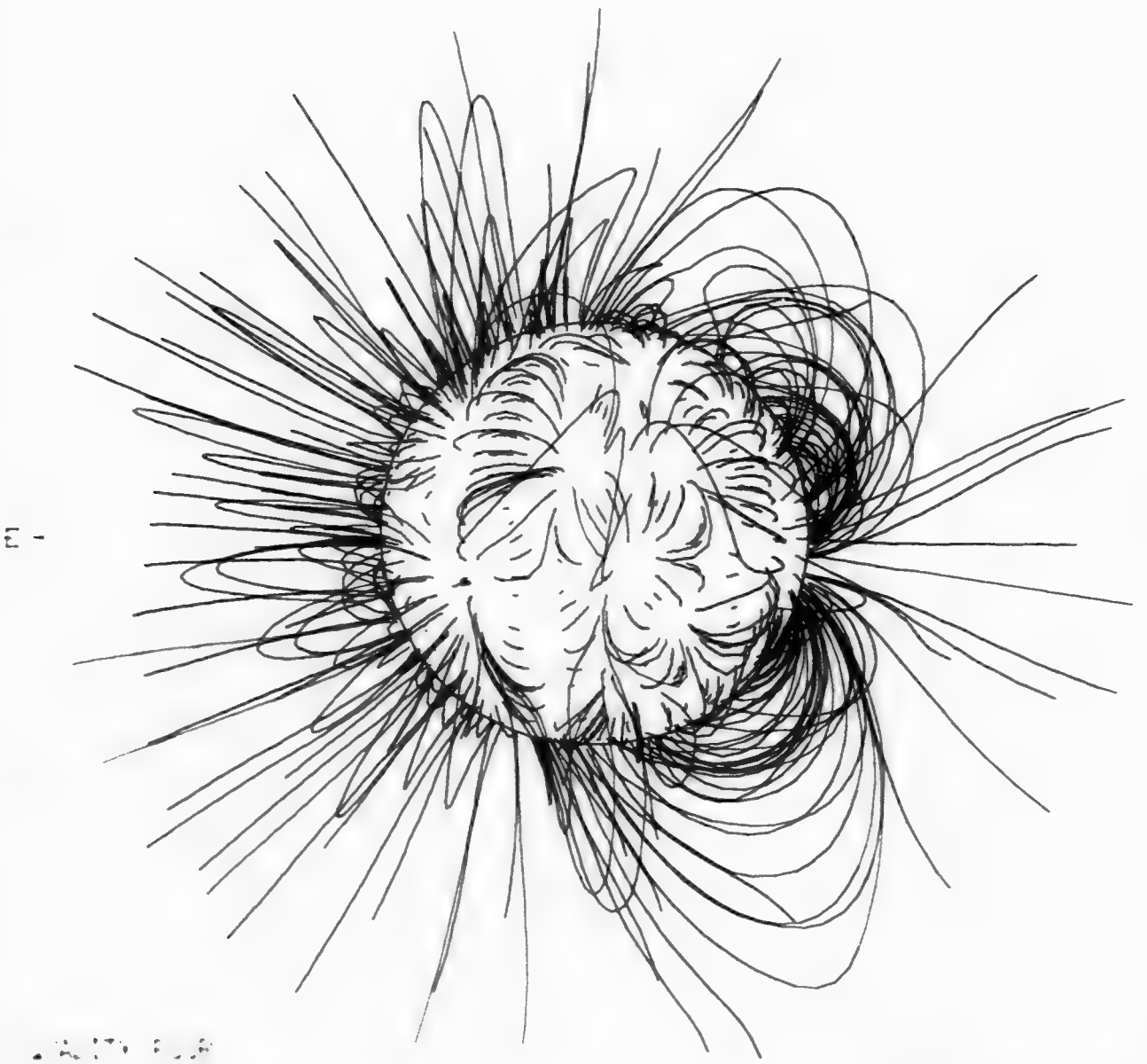
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



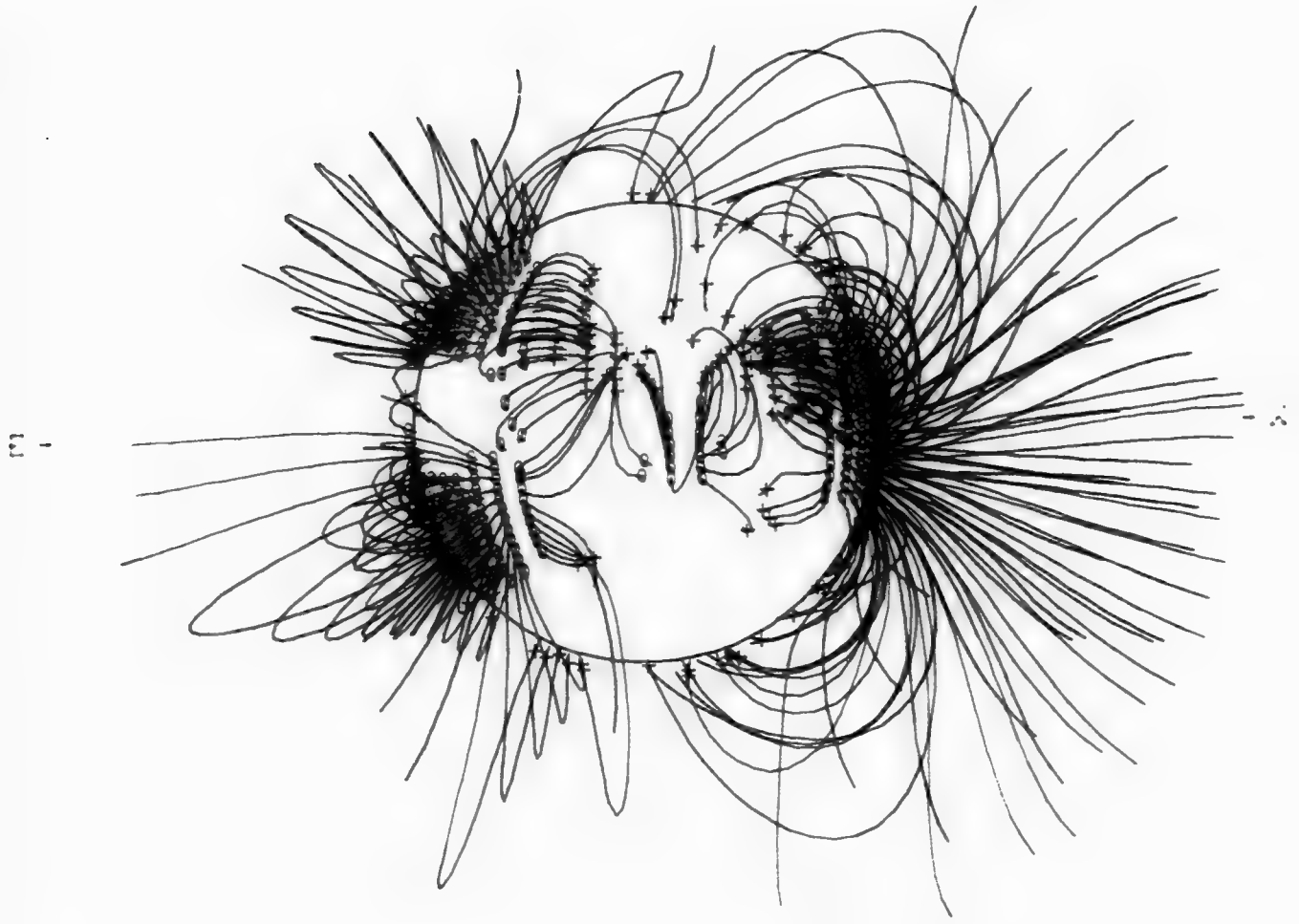
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



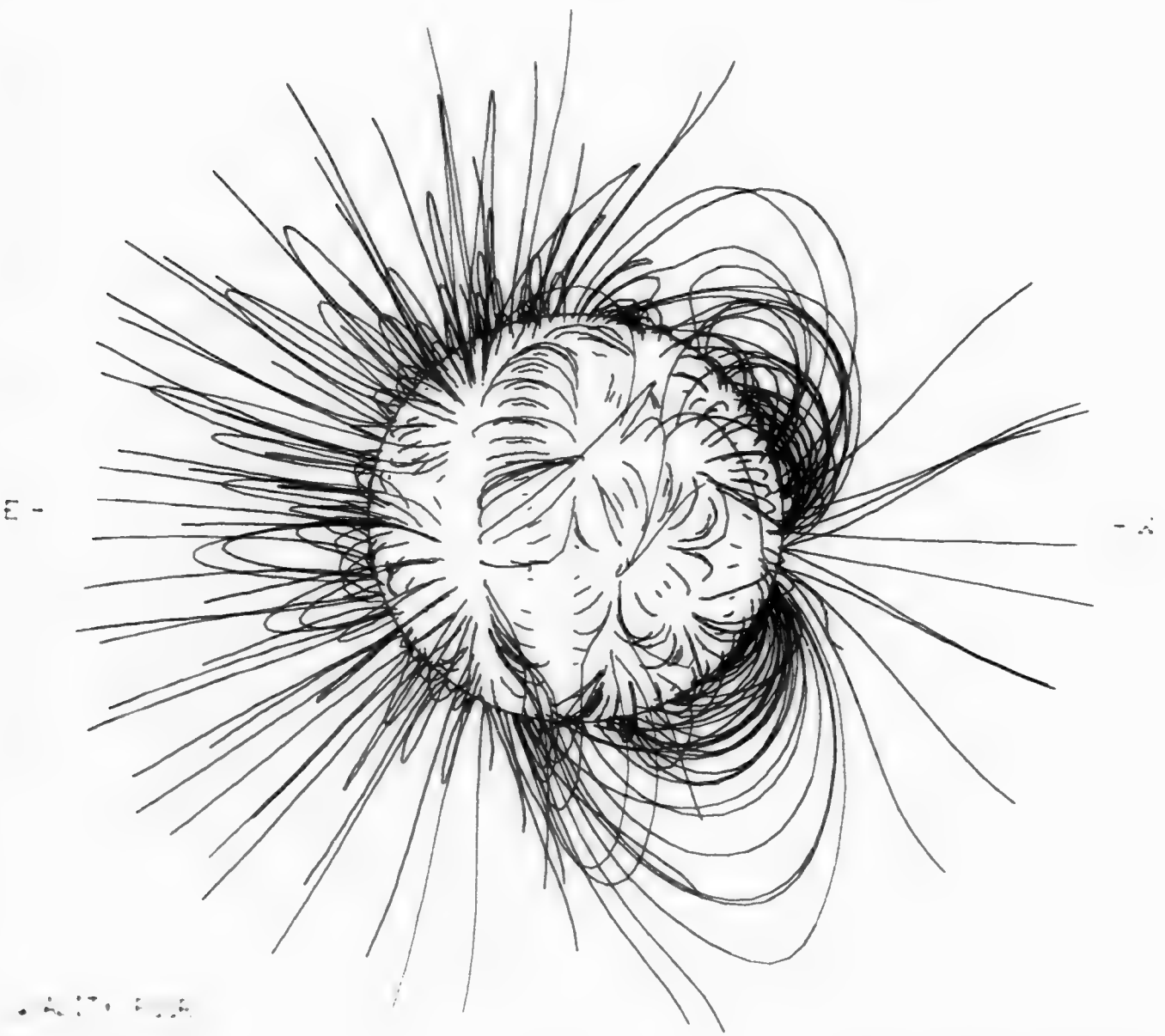
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



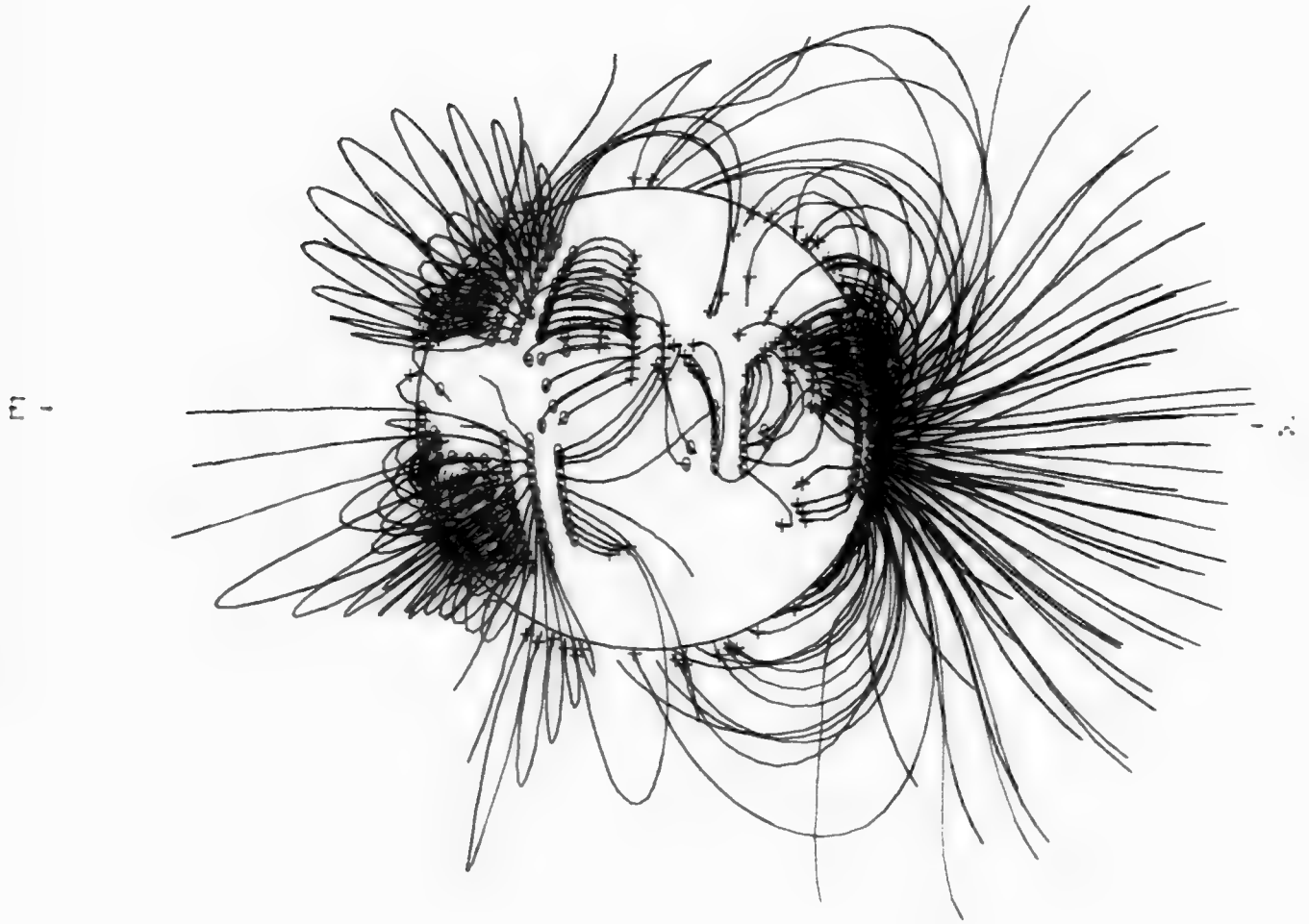
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



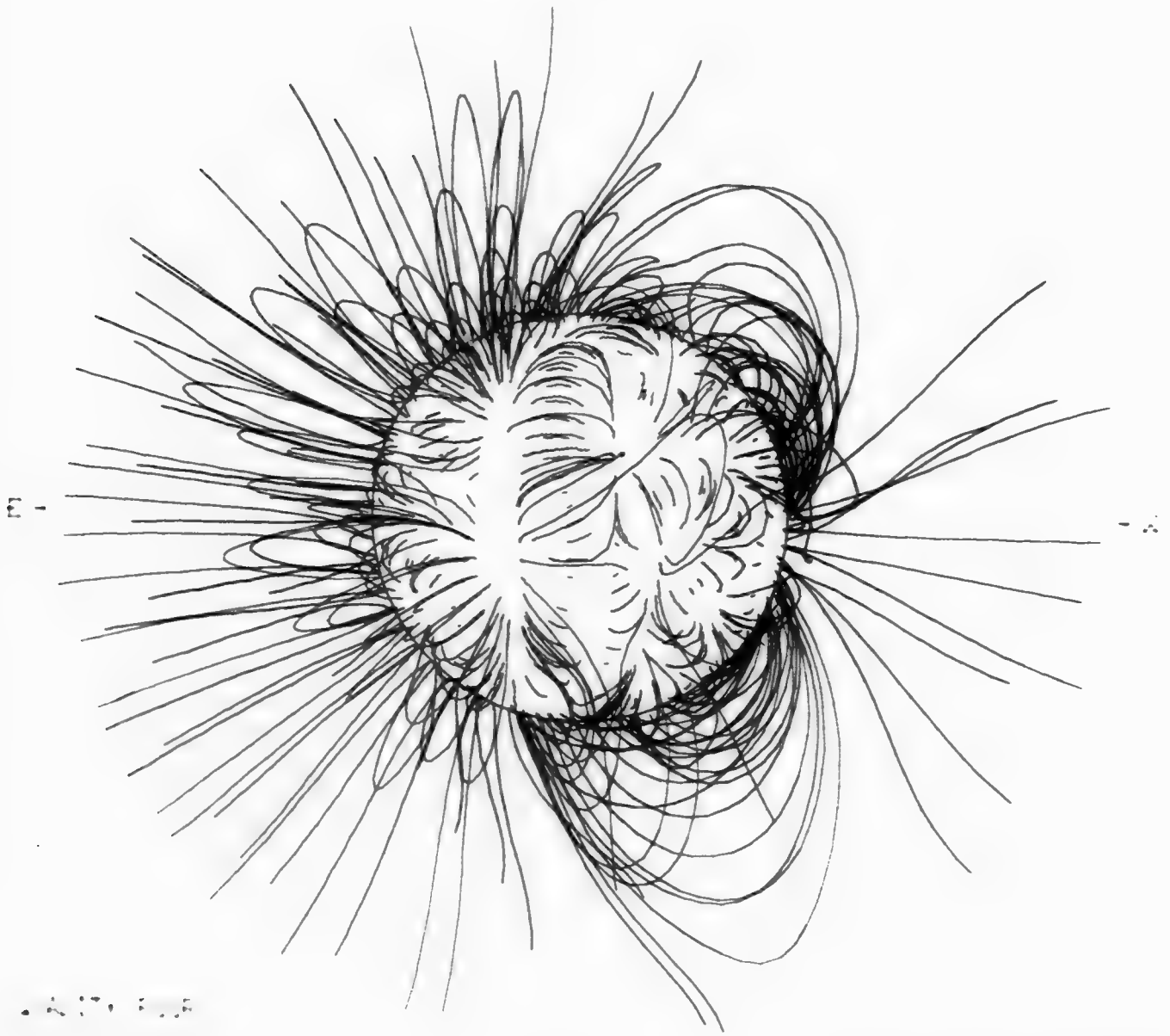
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



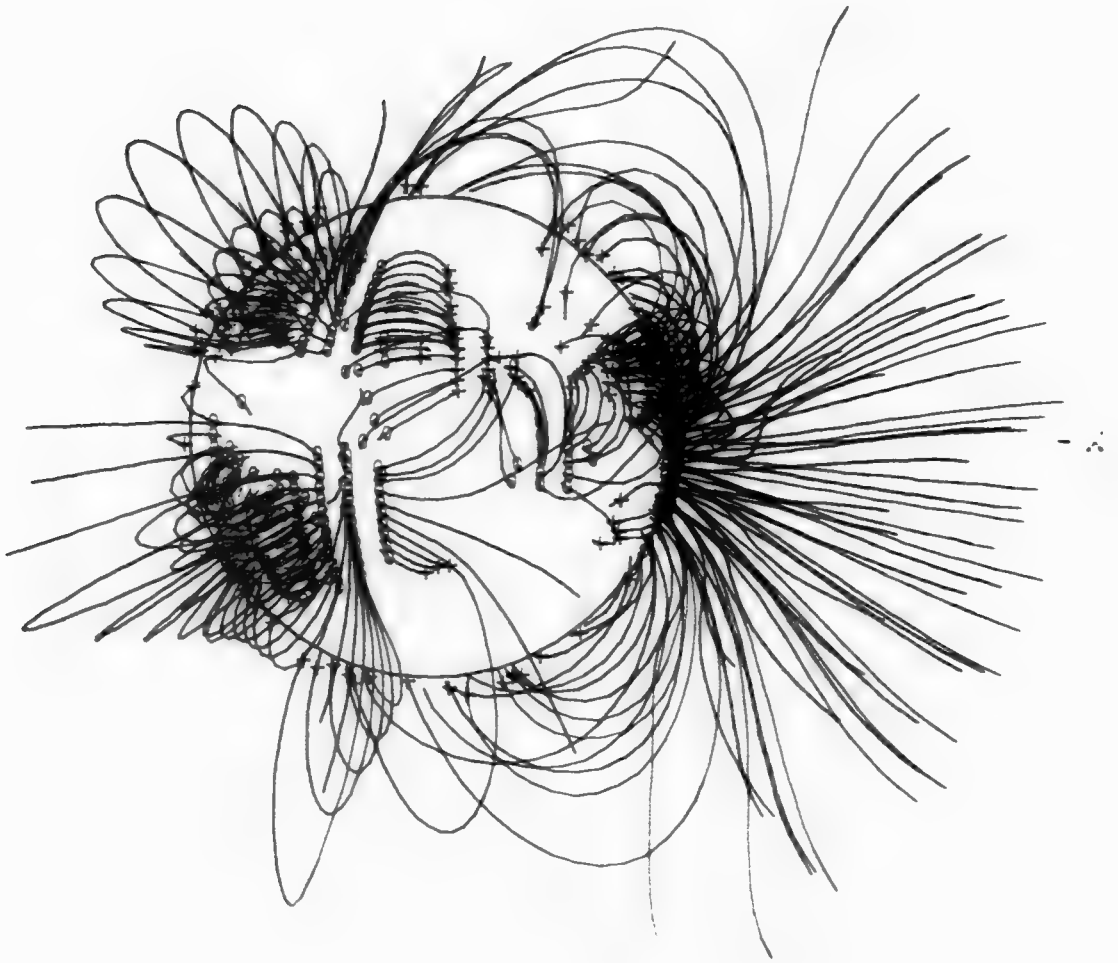
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



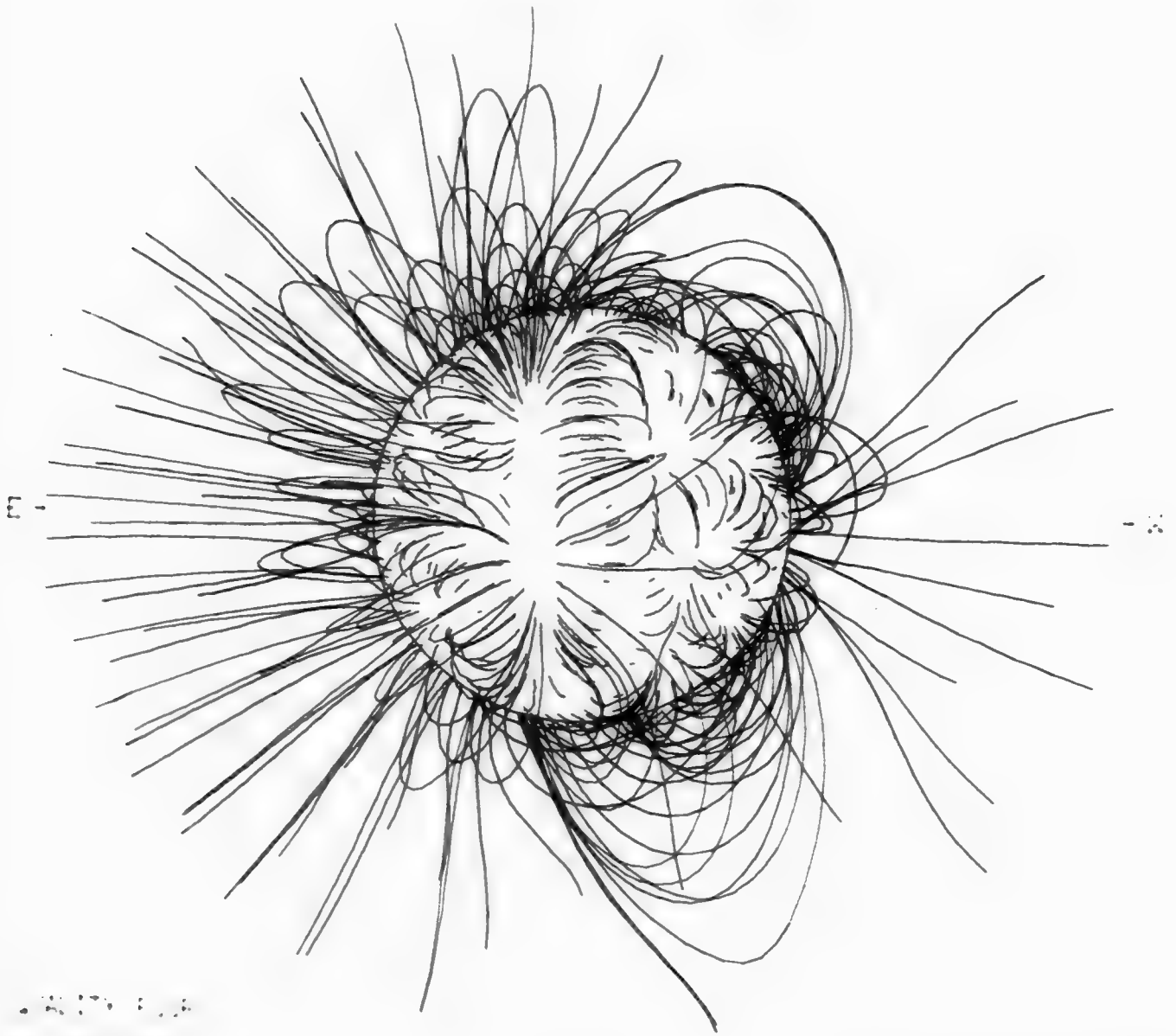
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



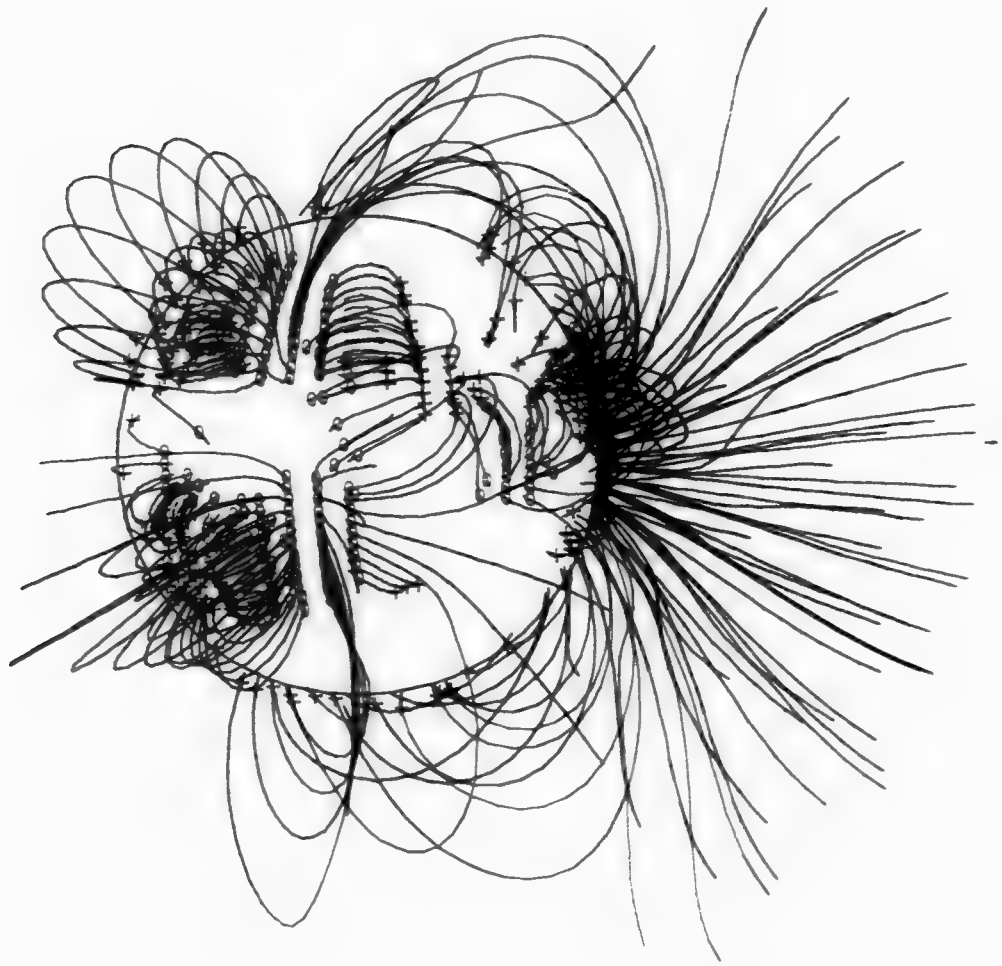
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



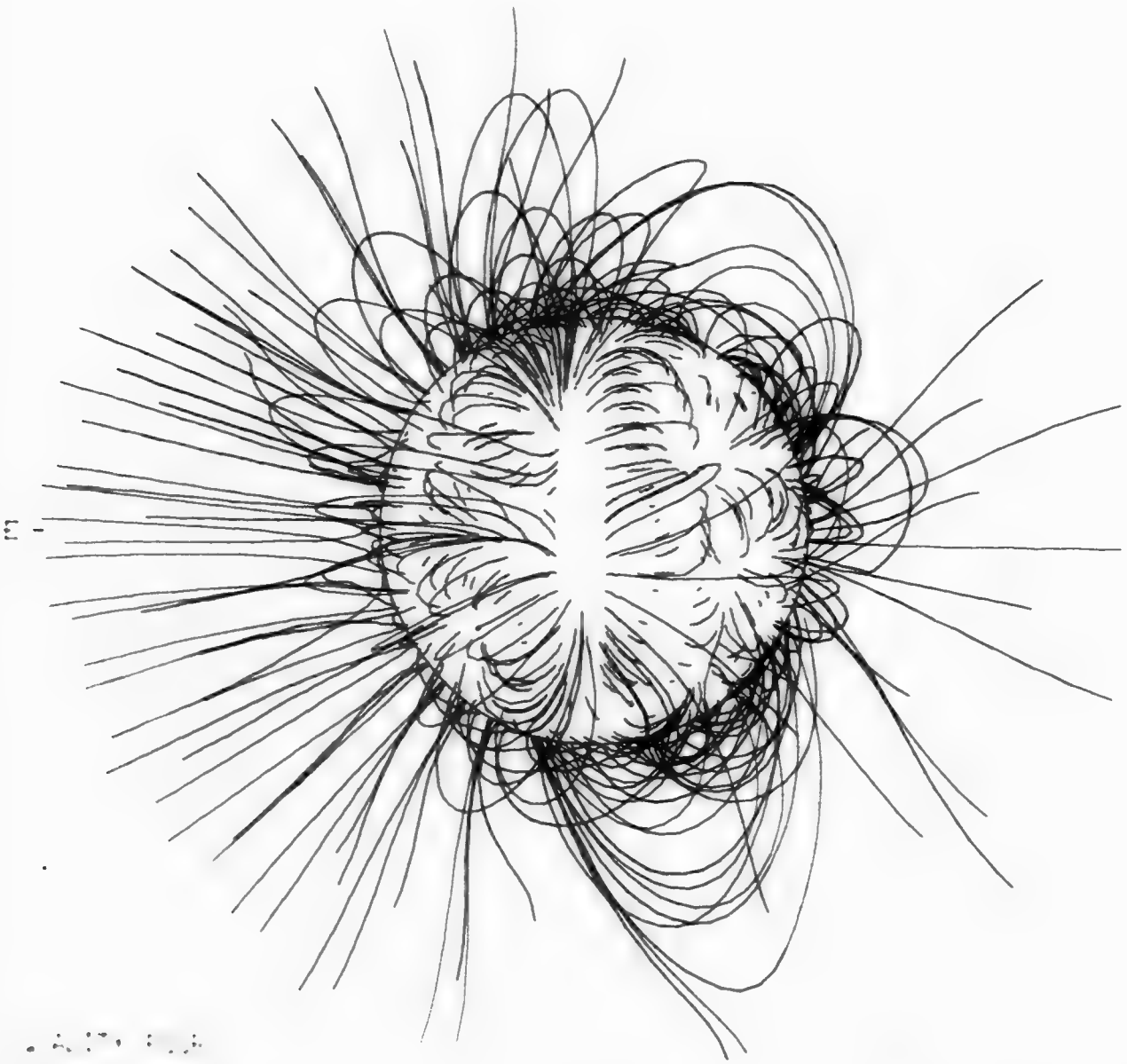
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



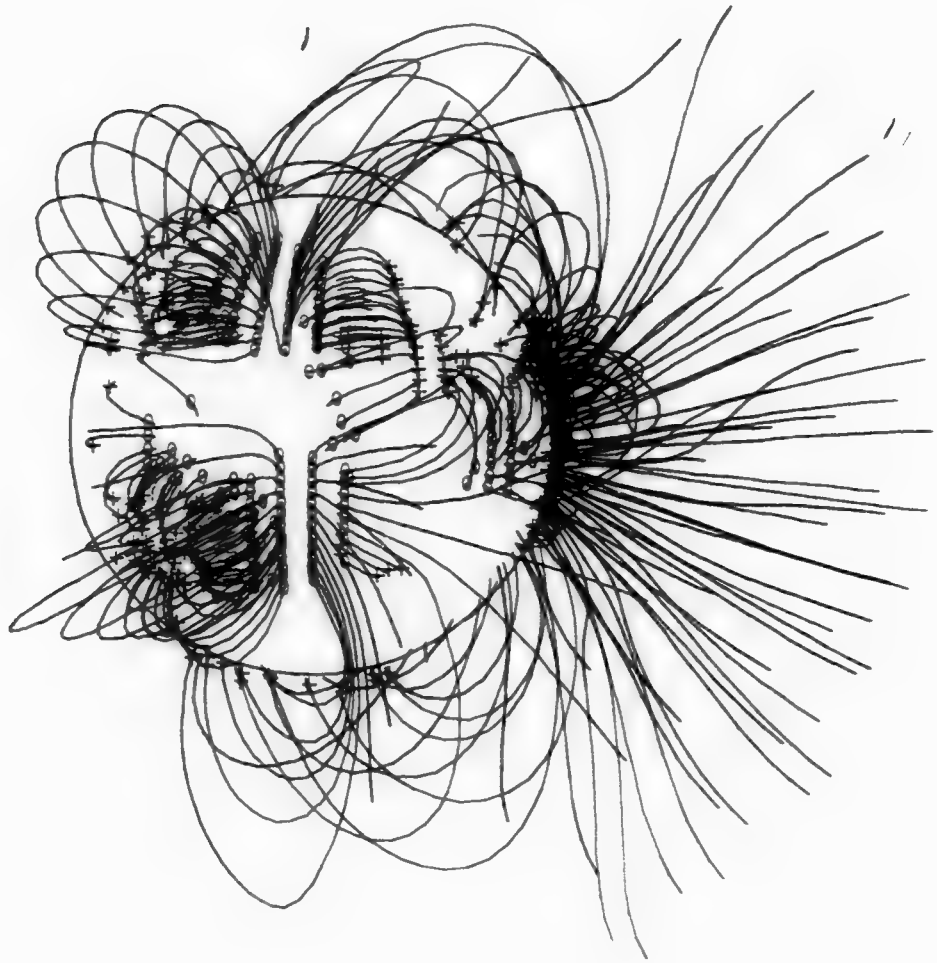
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



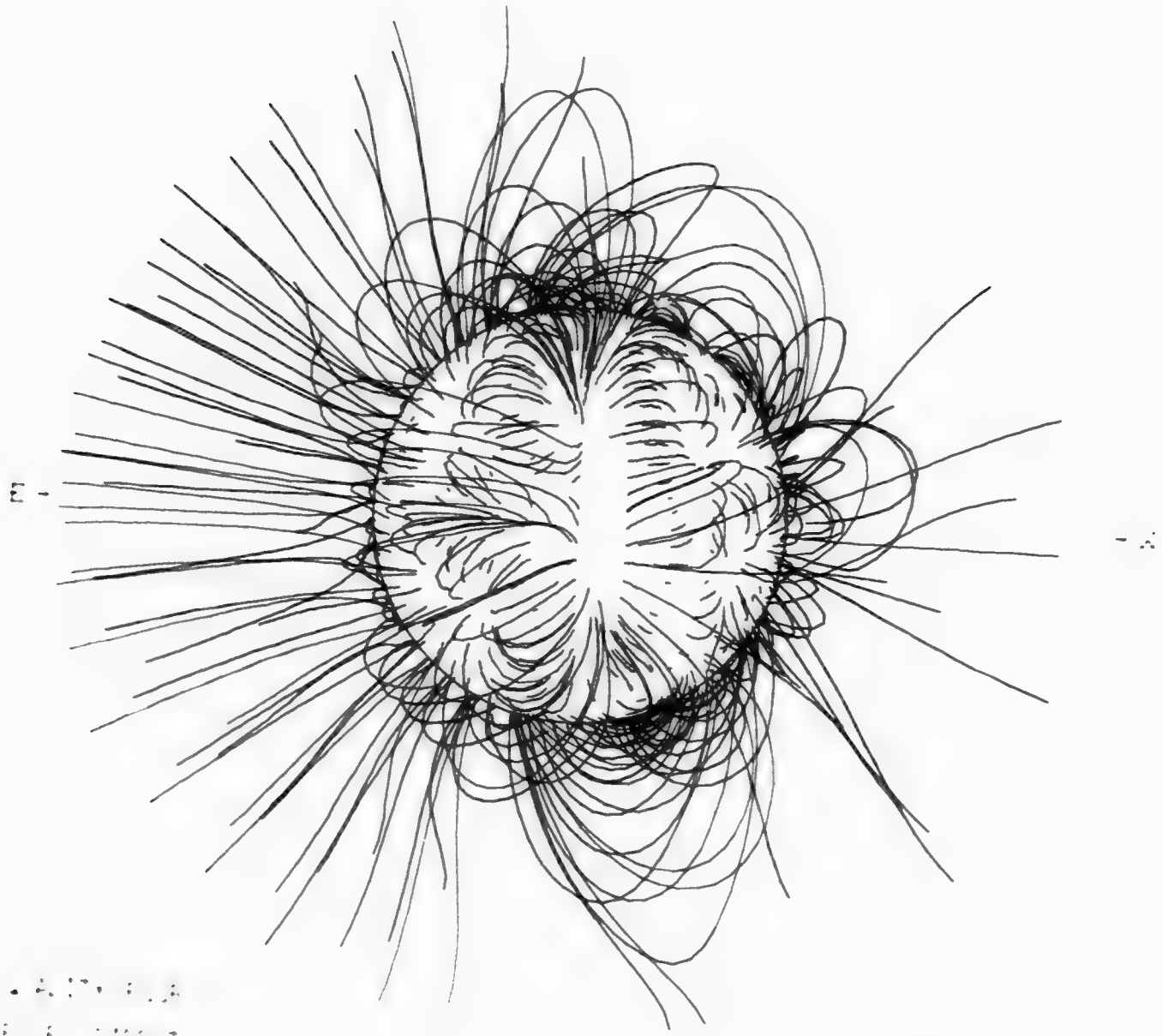
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

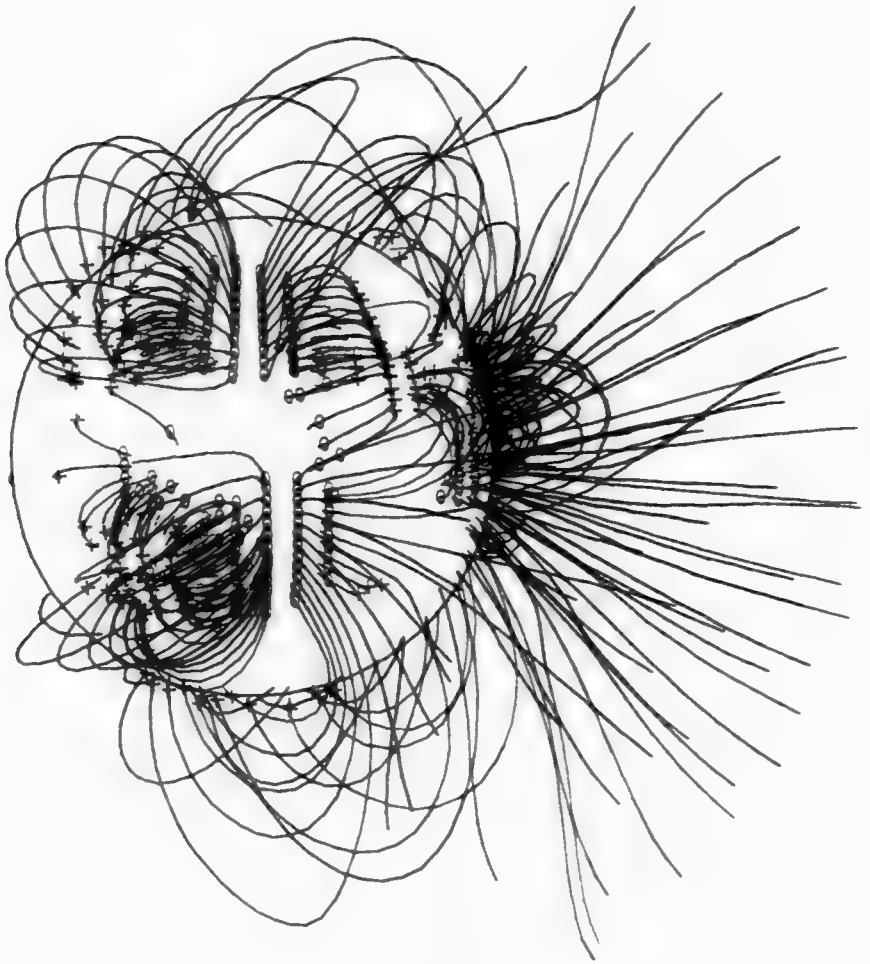


HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

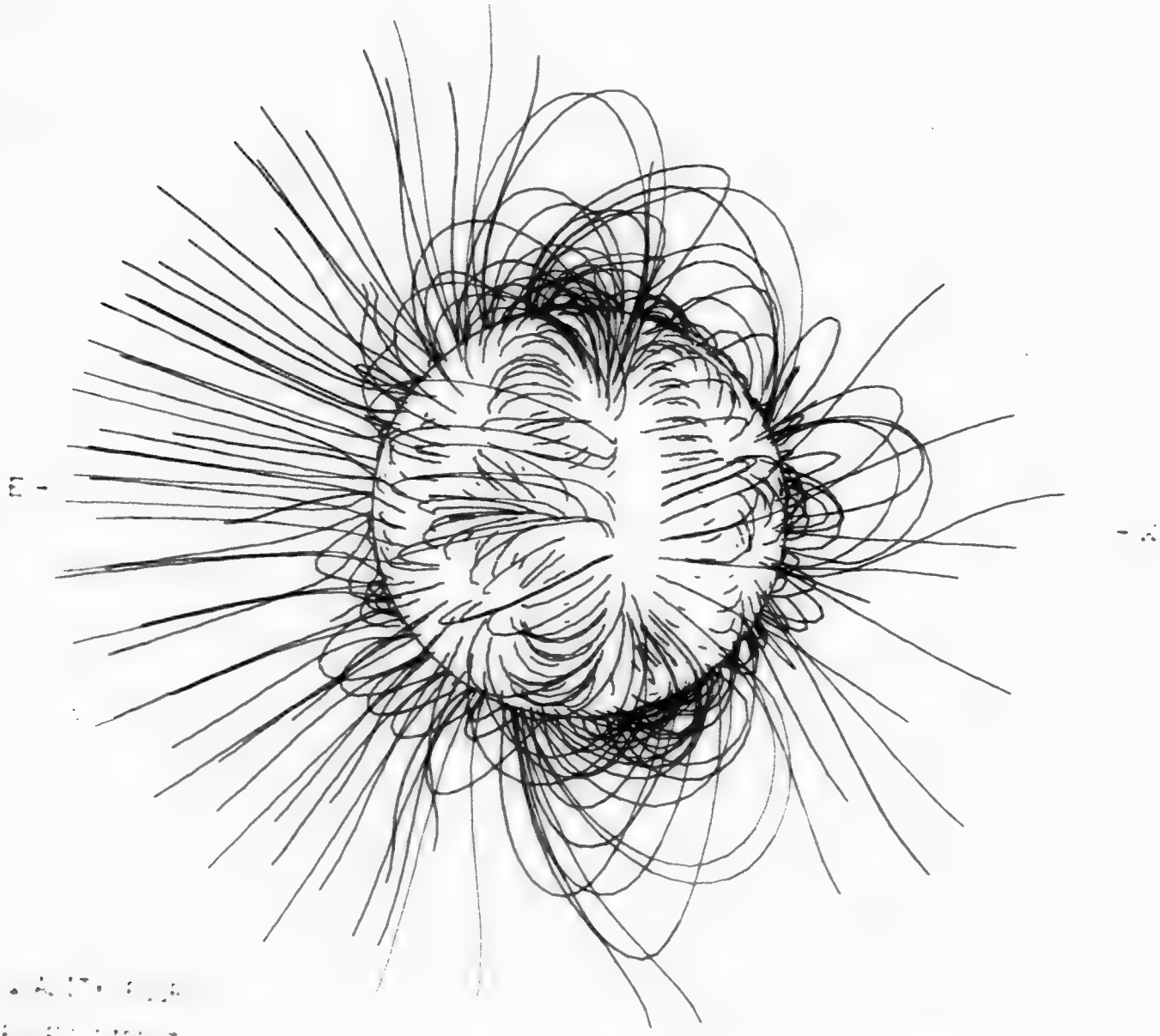


HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

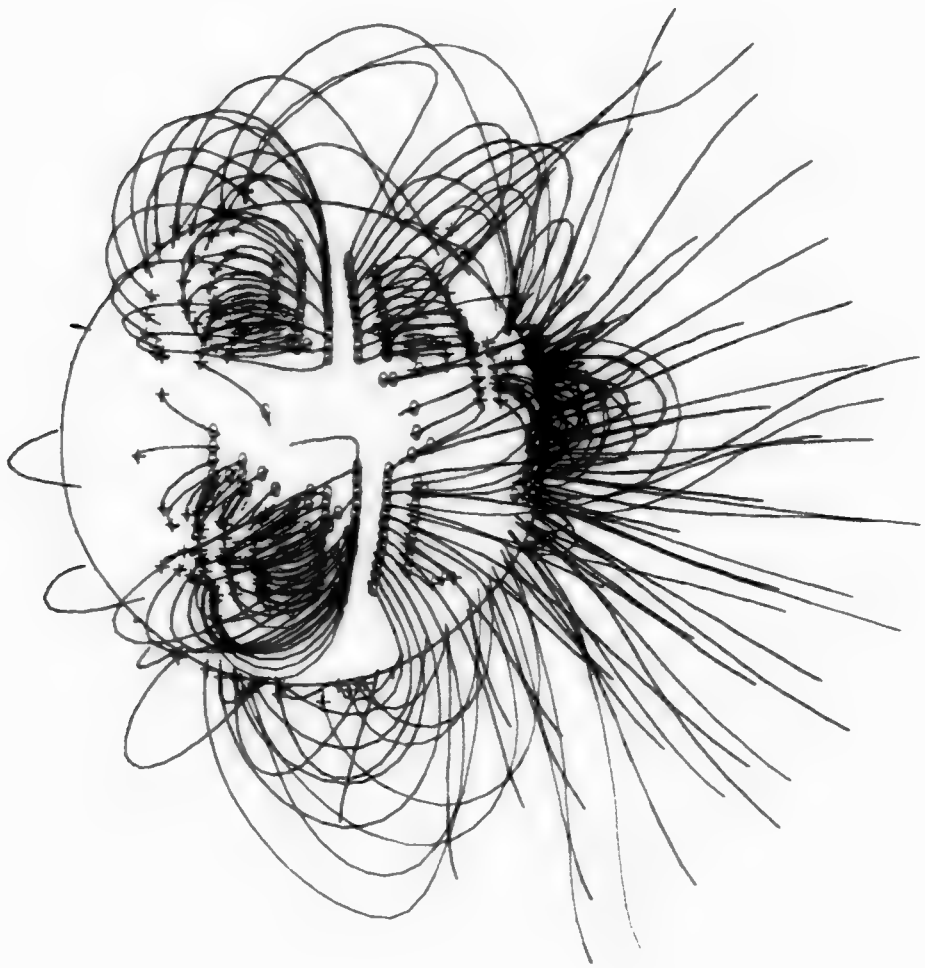




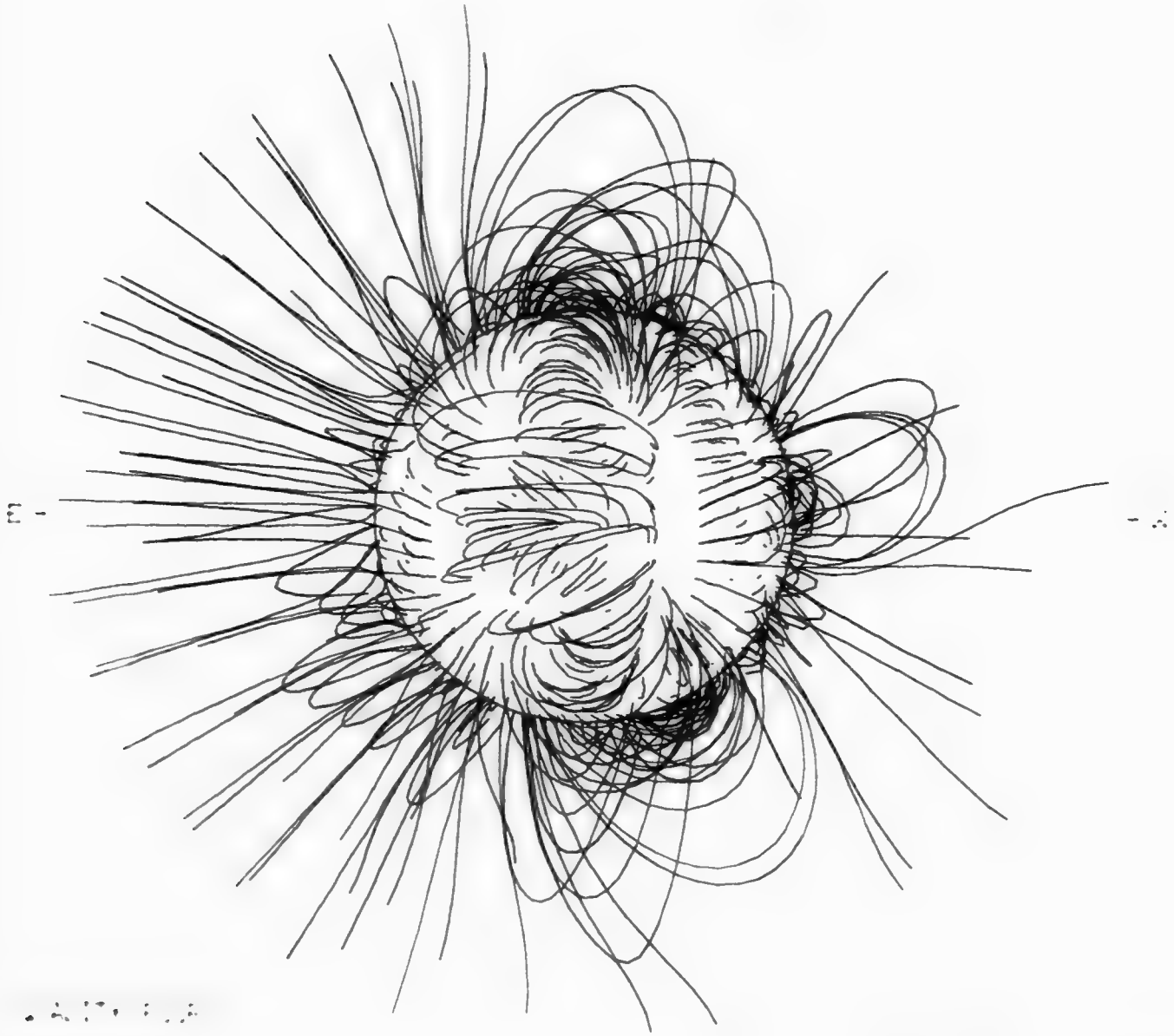
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



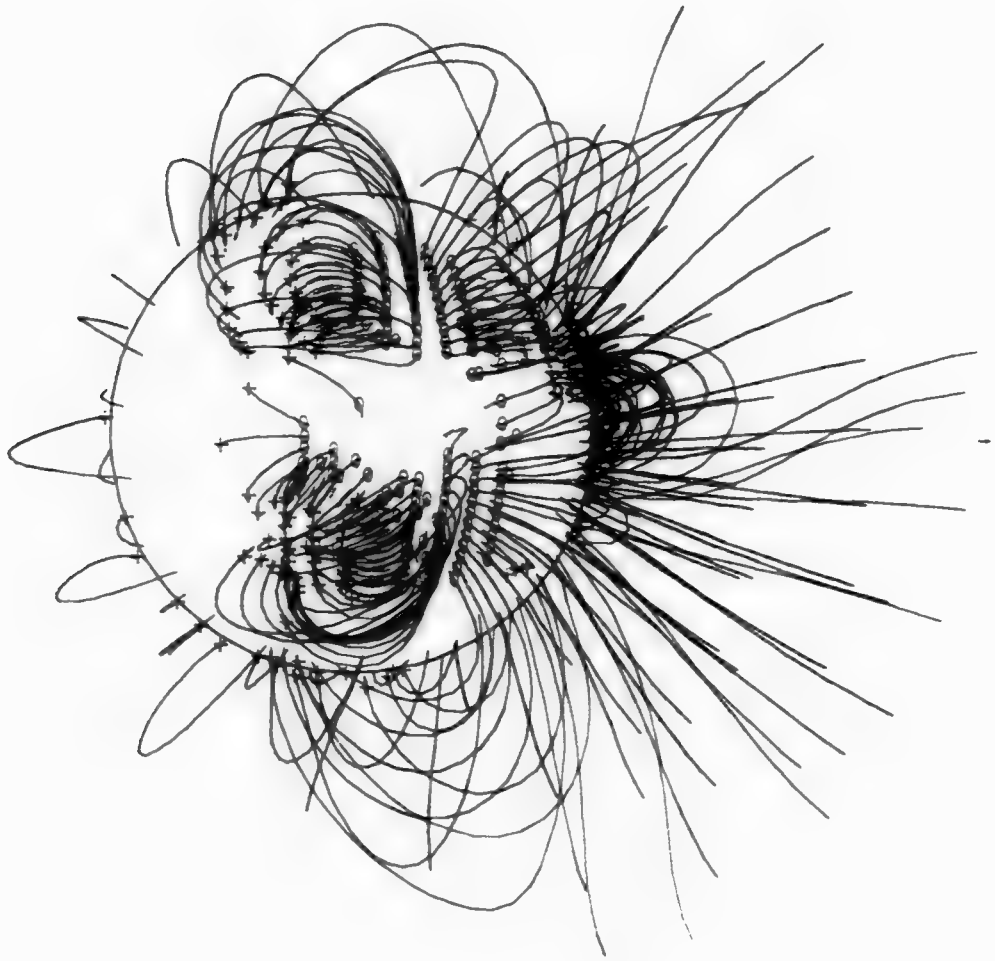
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



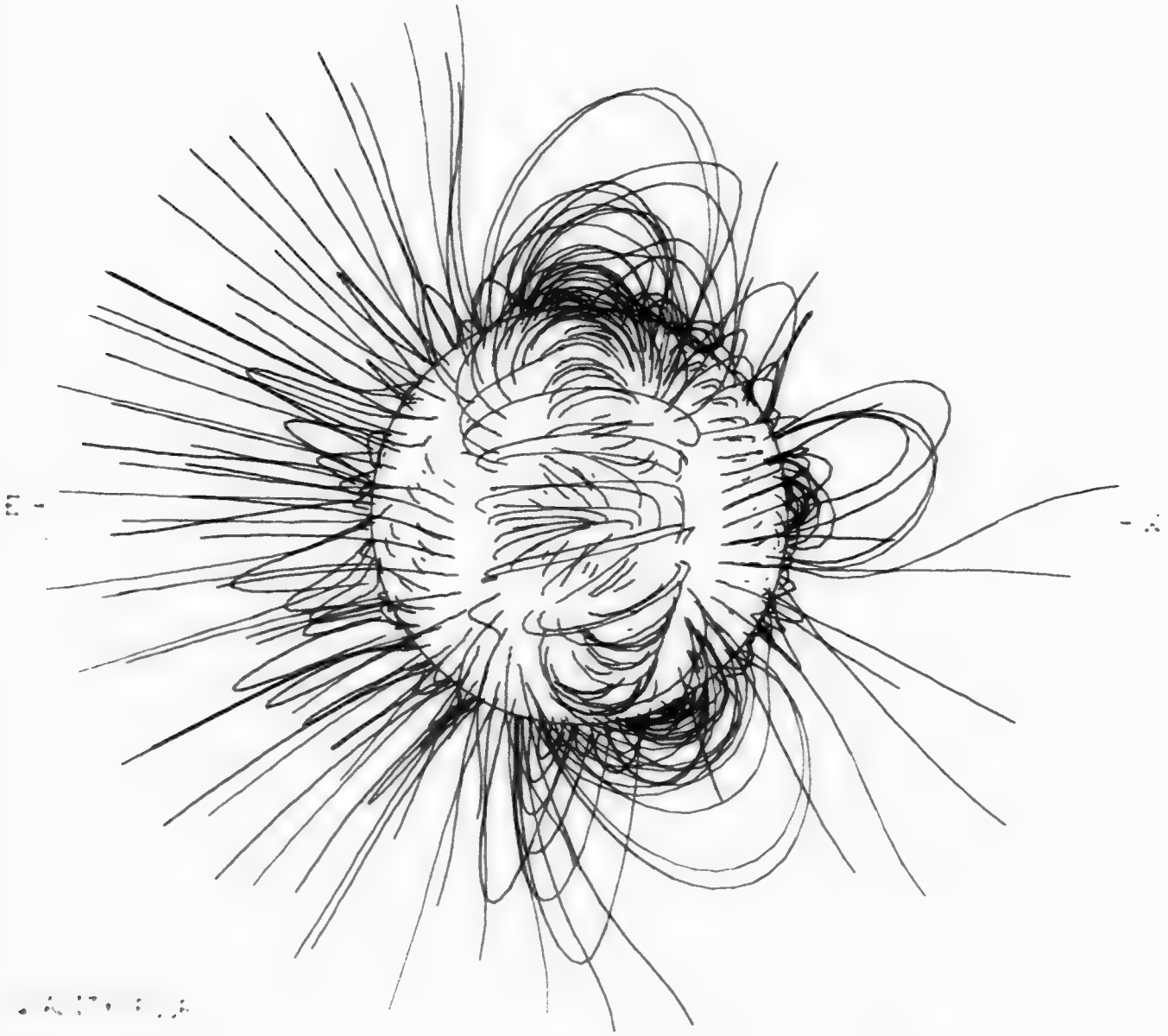
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



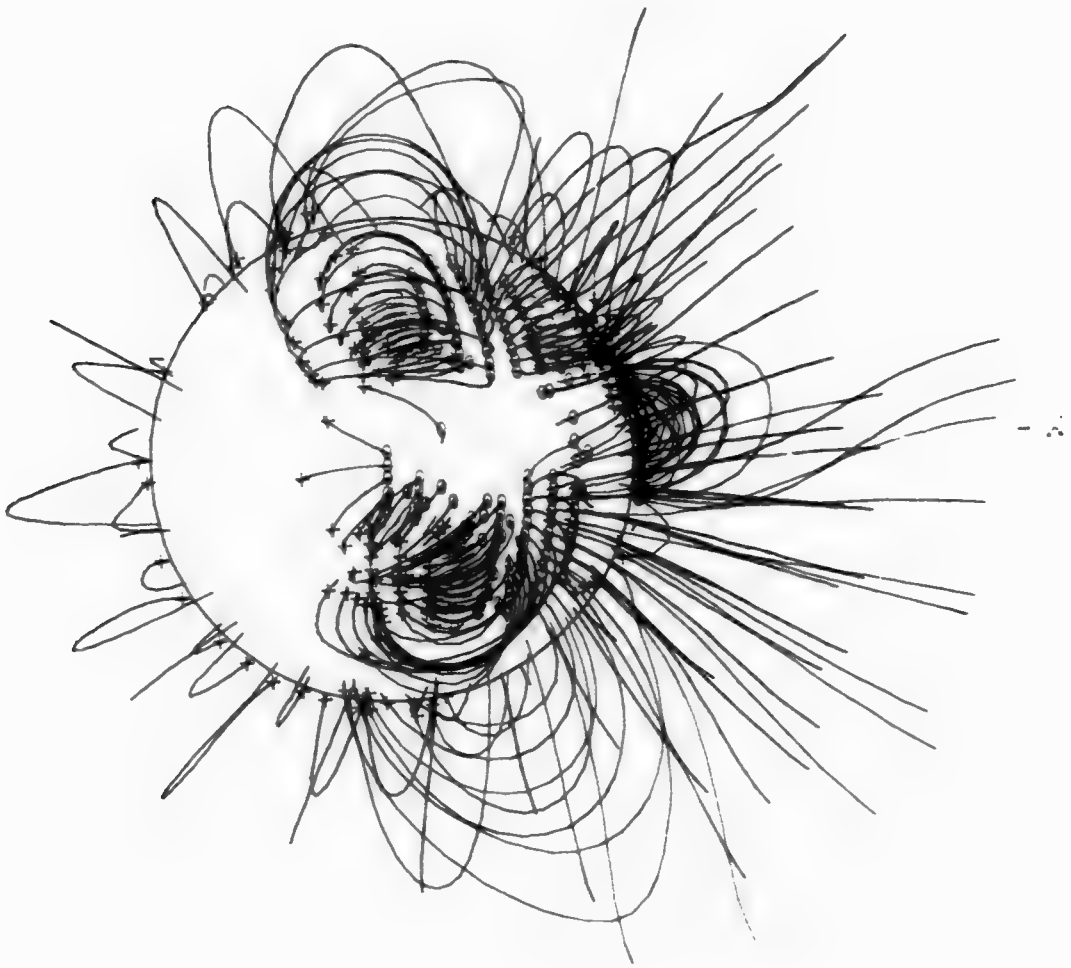
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



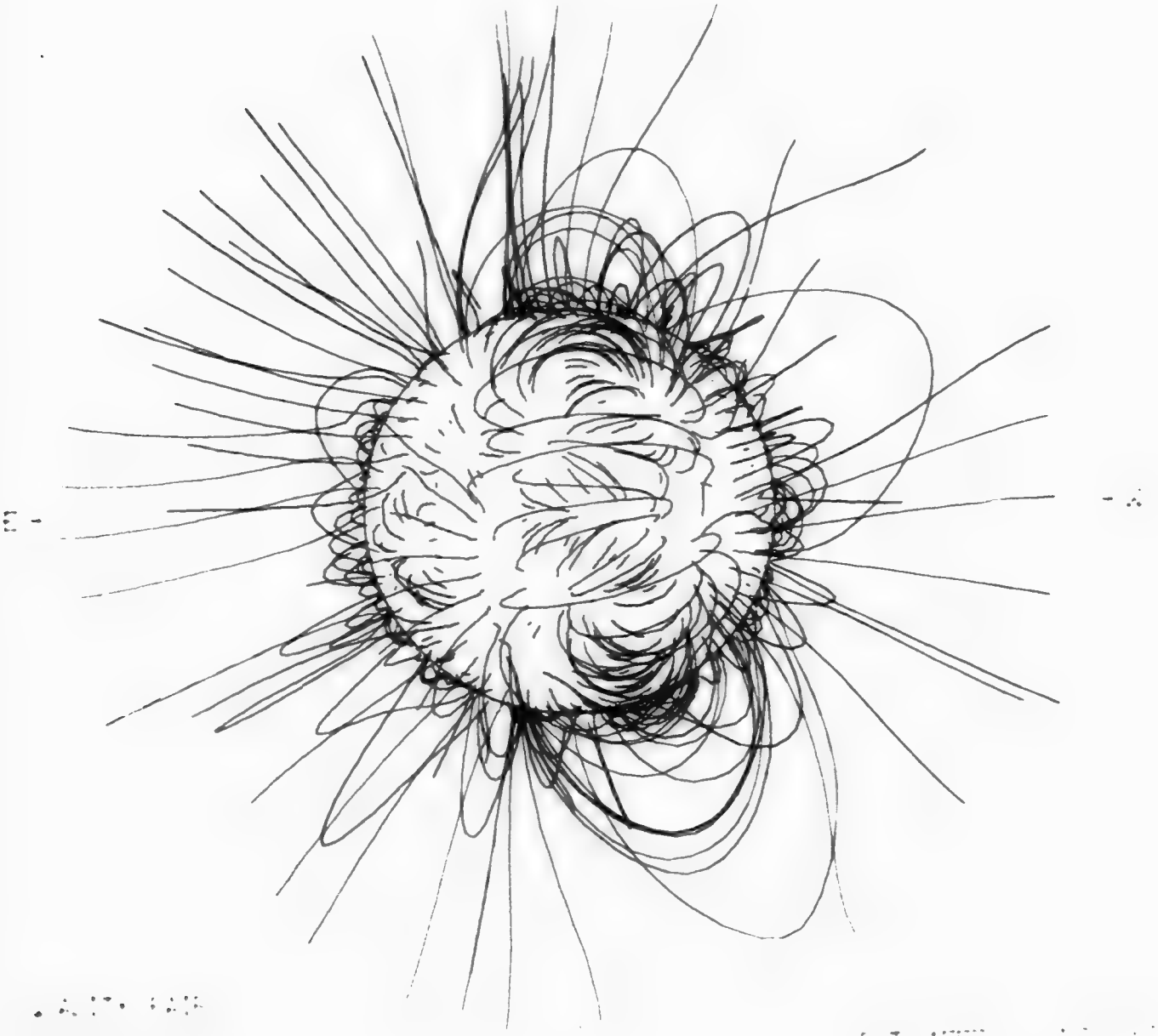
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



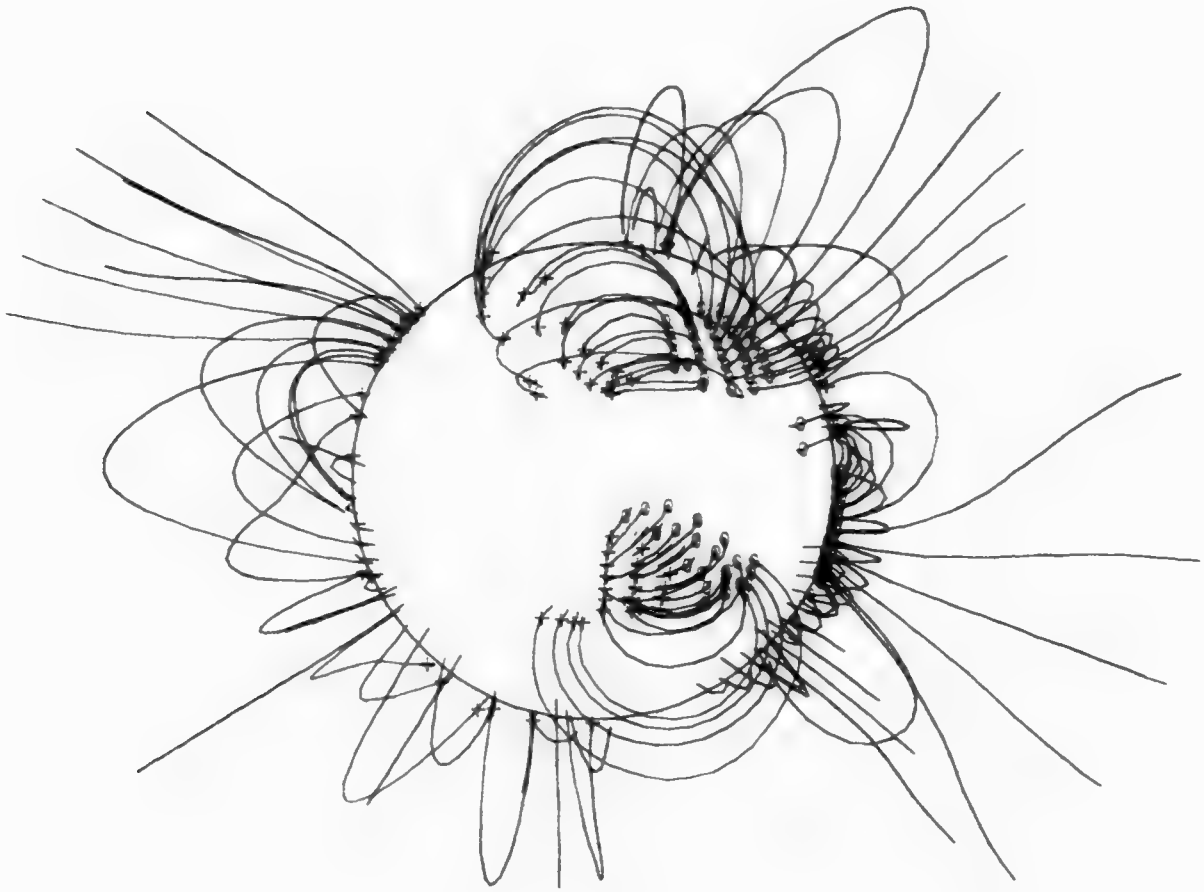
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



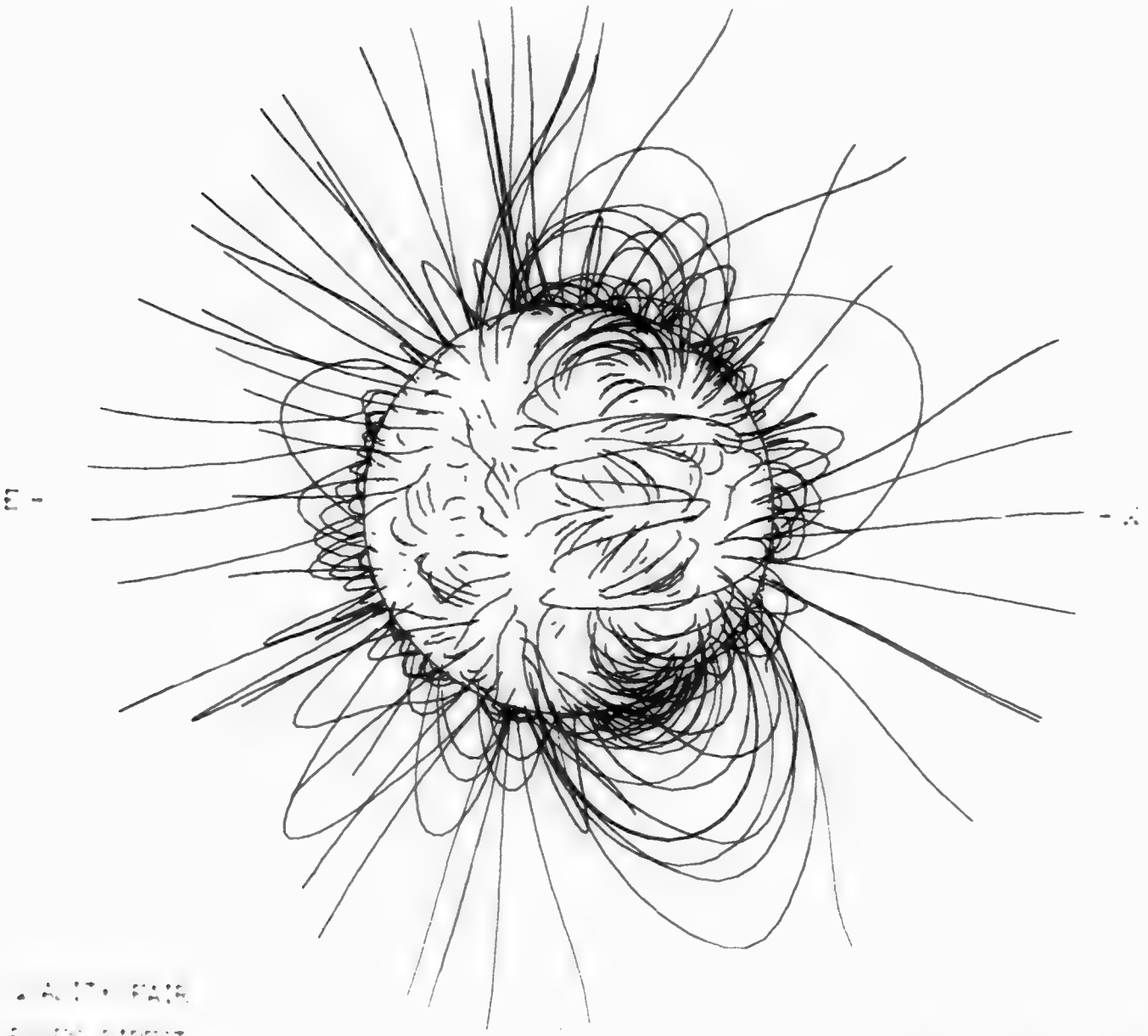
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



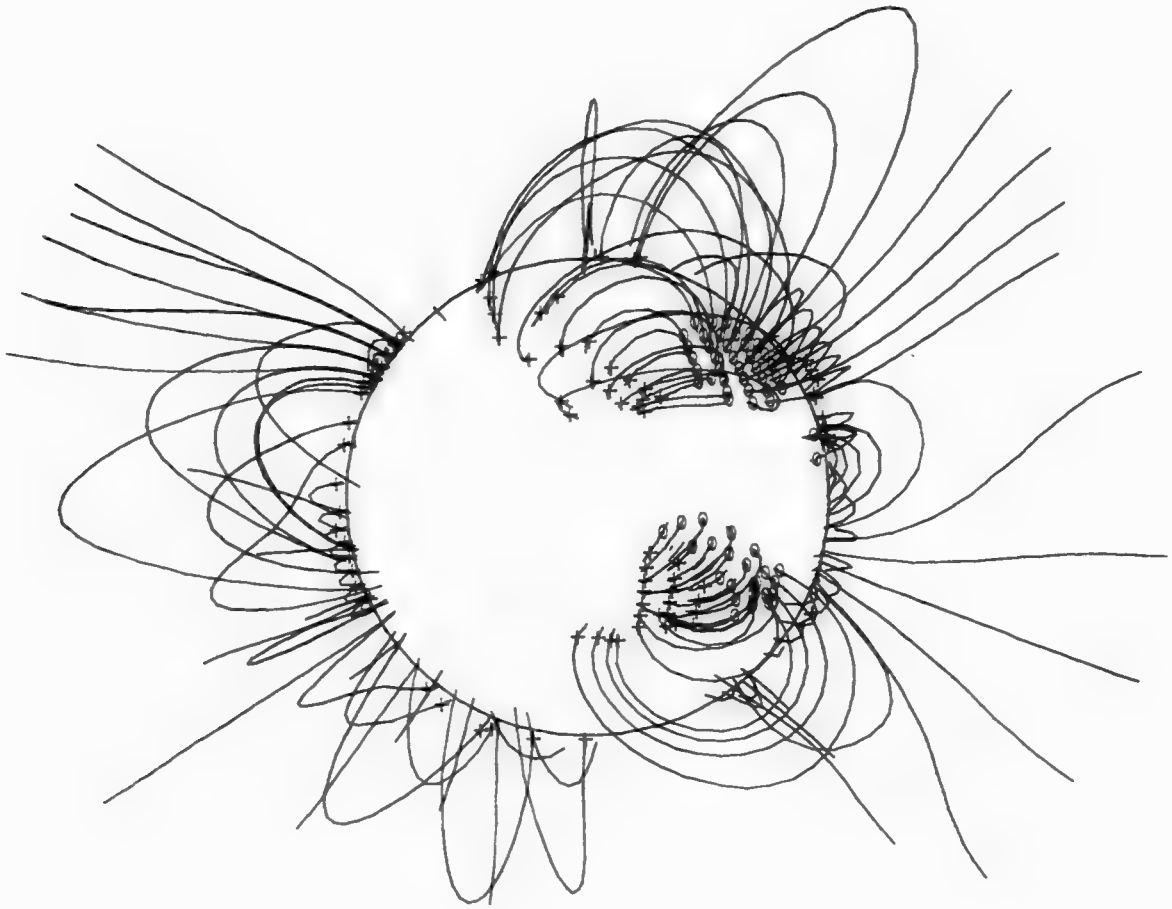
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N

E -

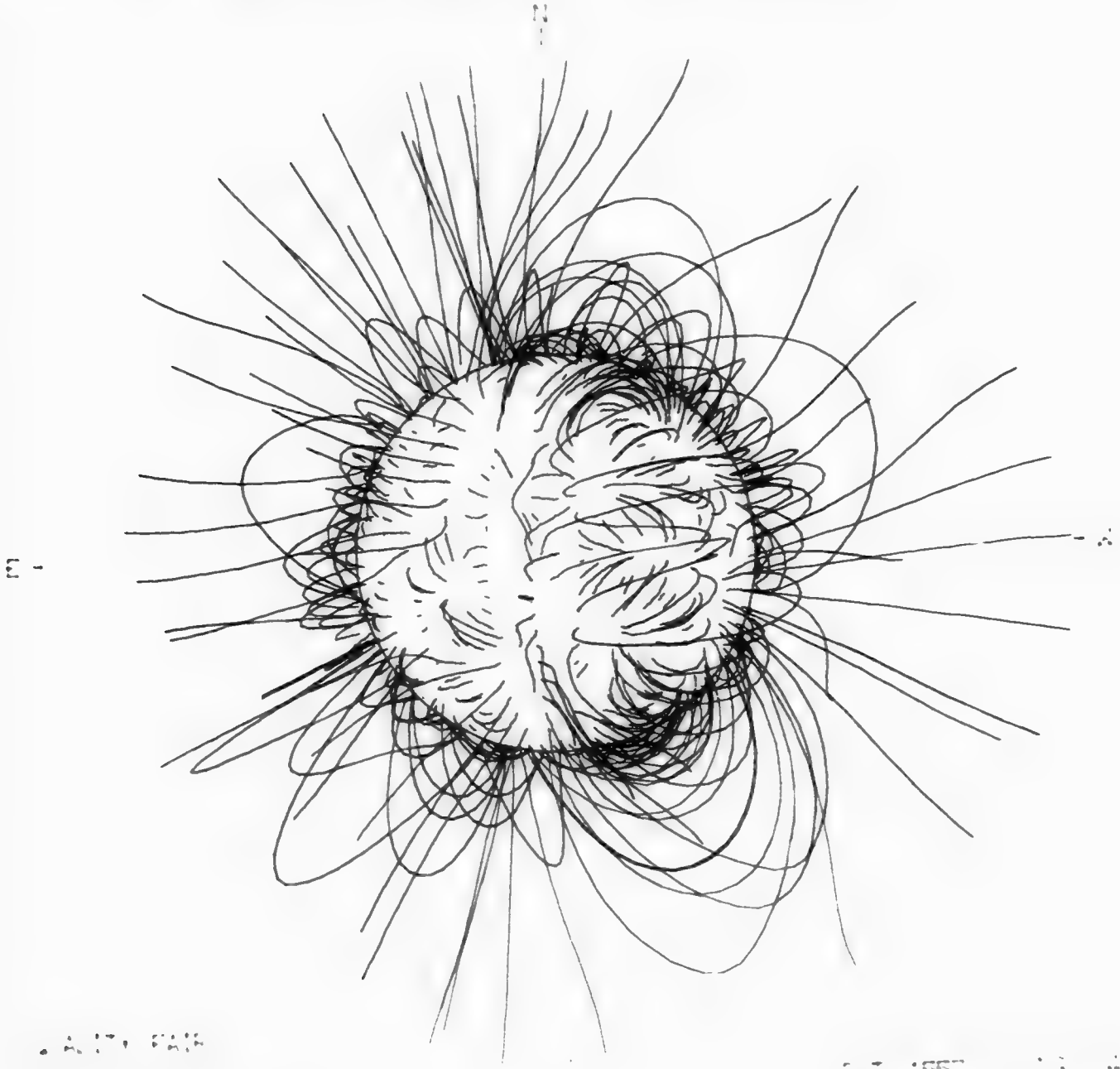
- W

S

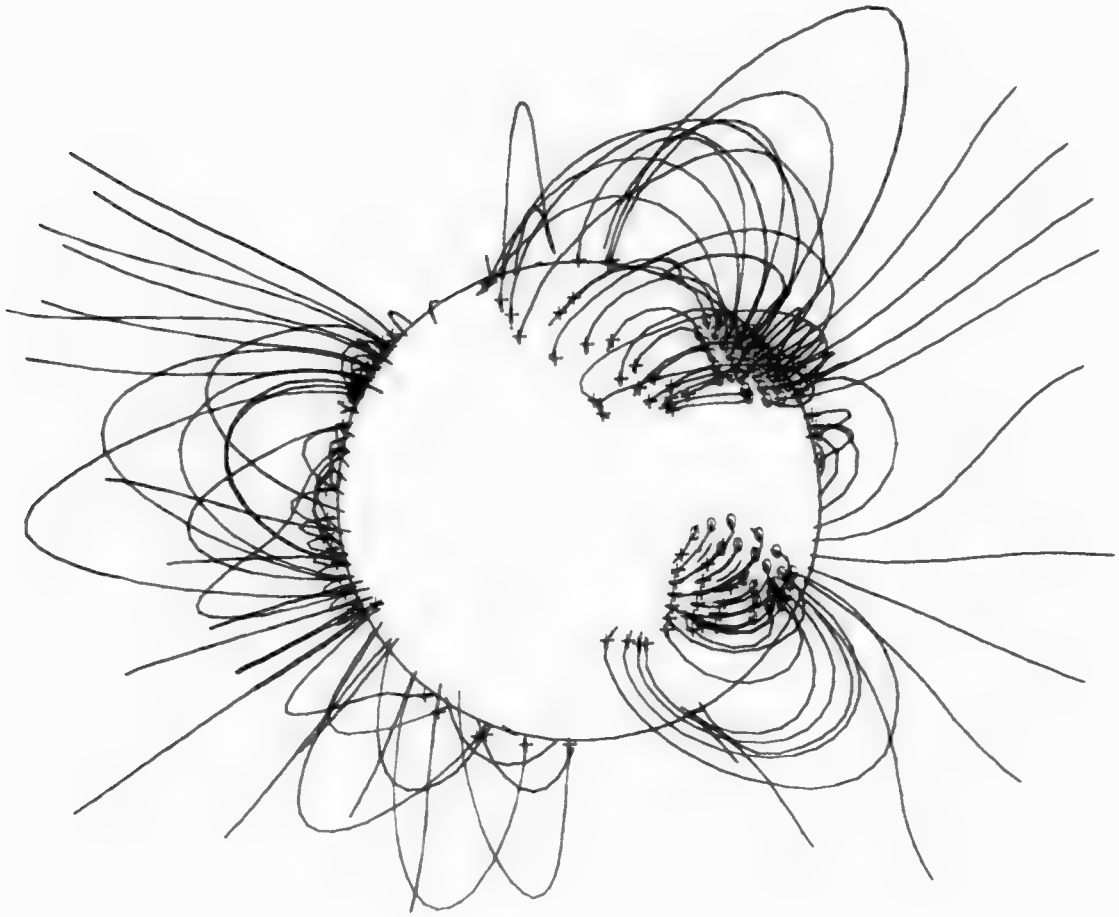


POLES DIRECT

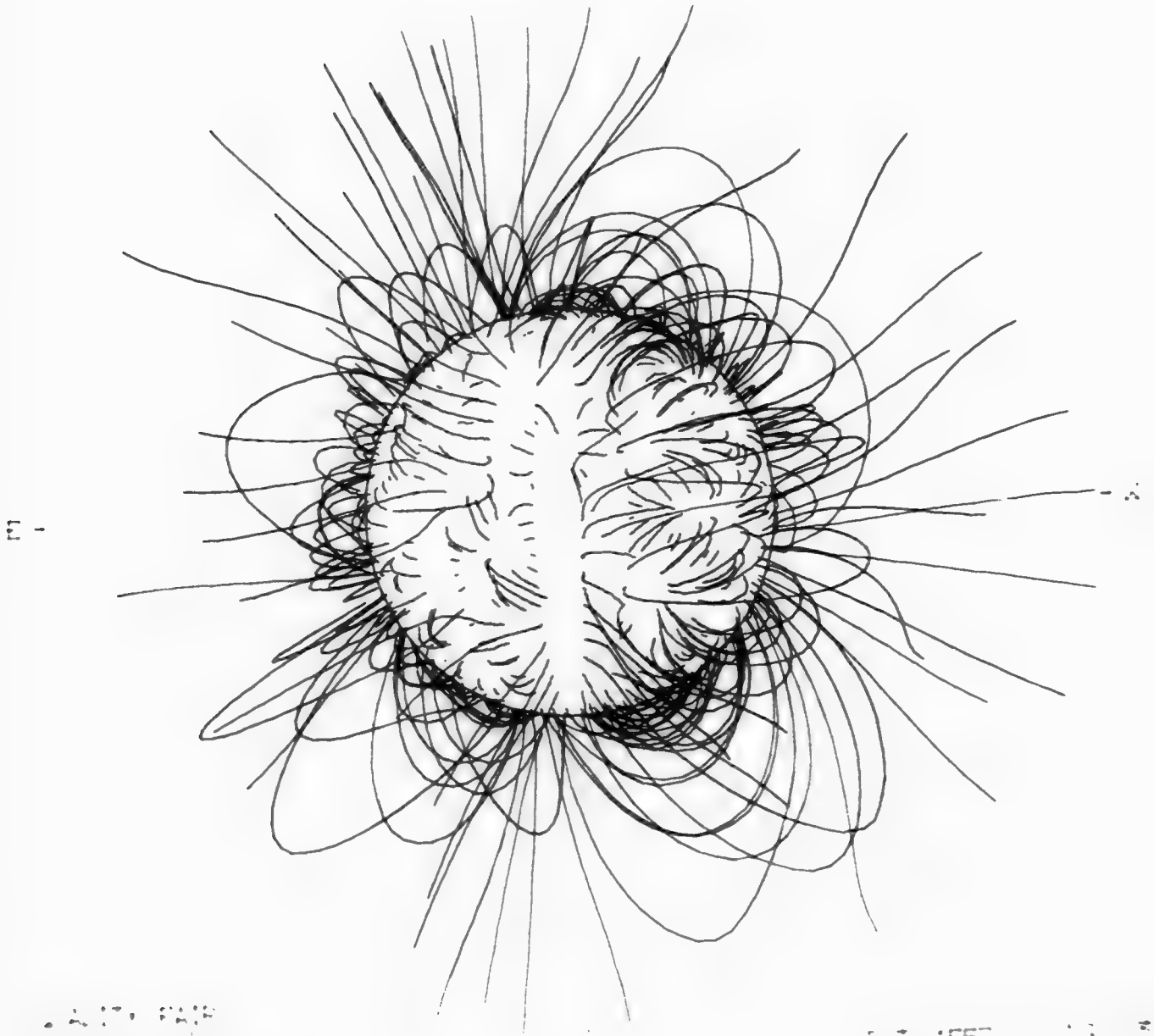
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



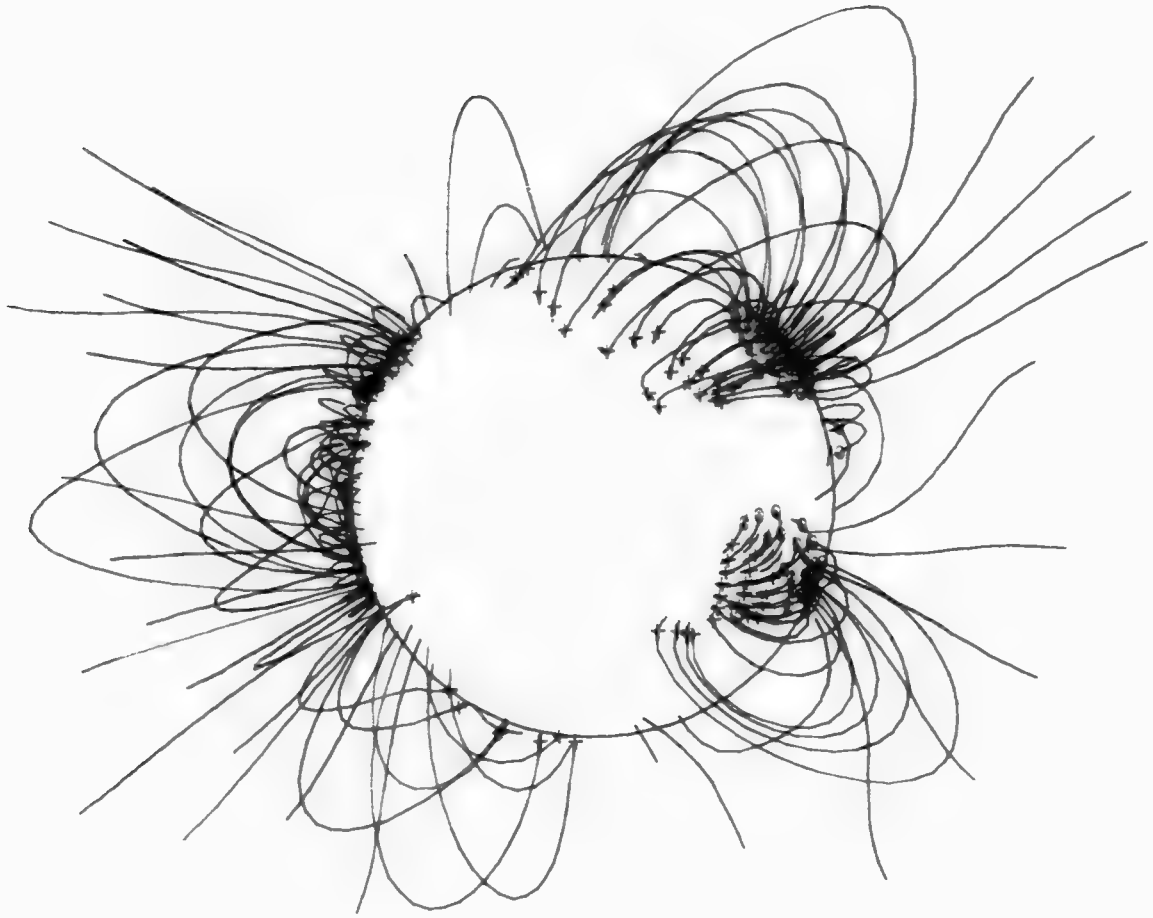
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



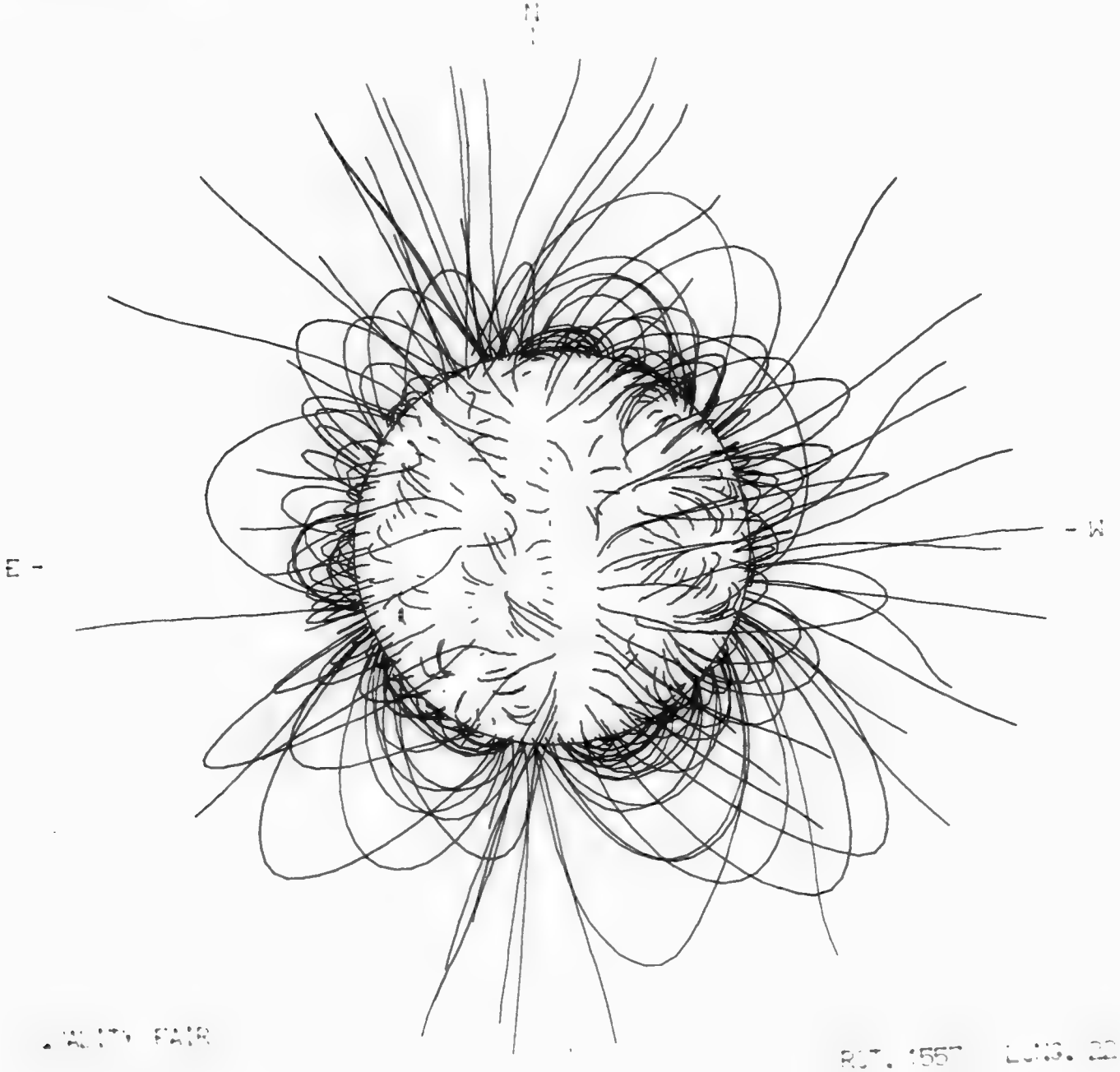
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



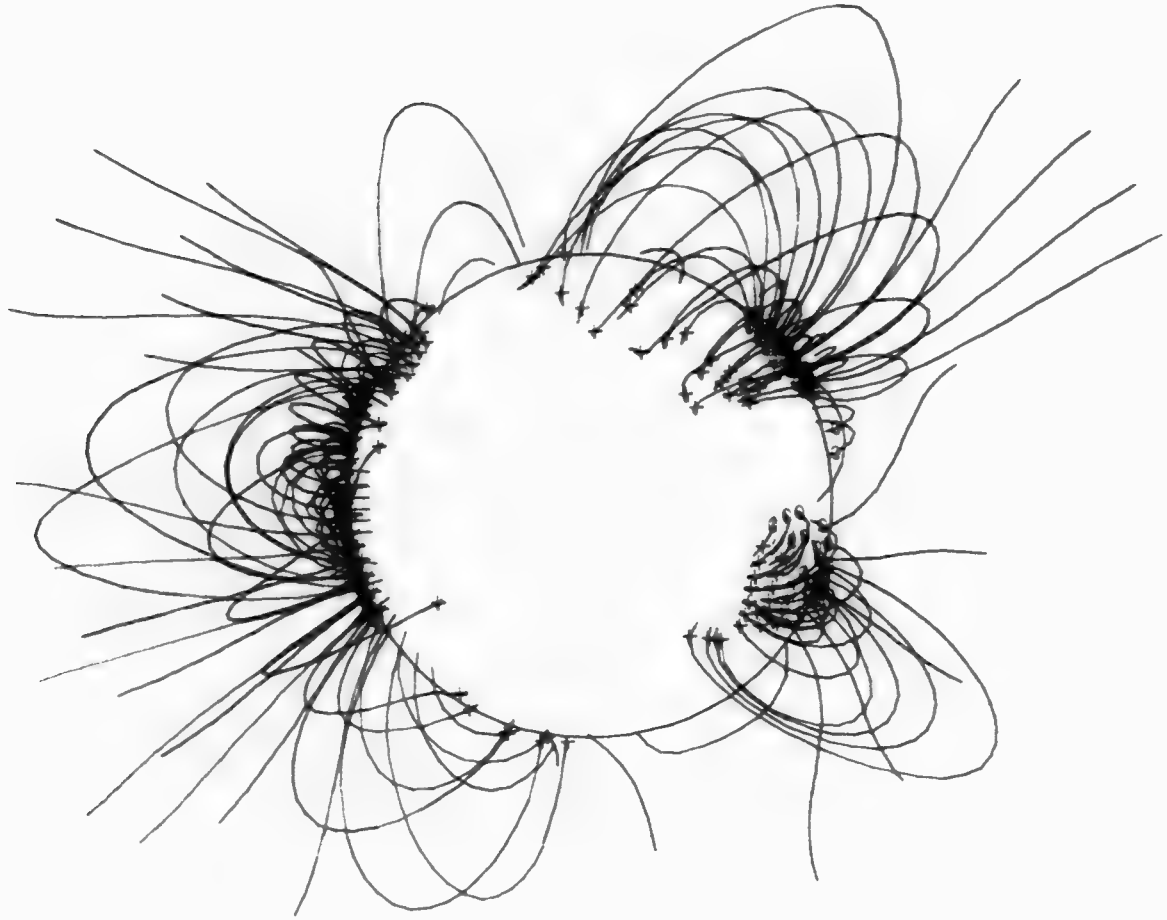
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



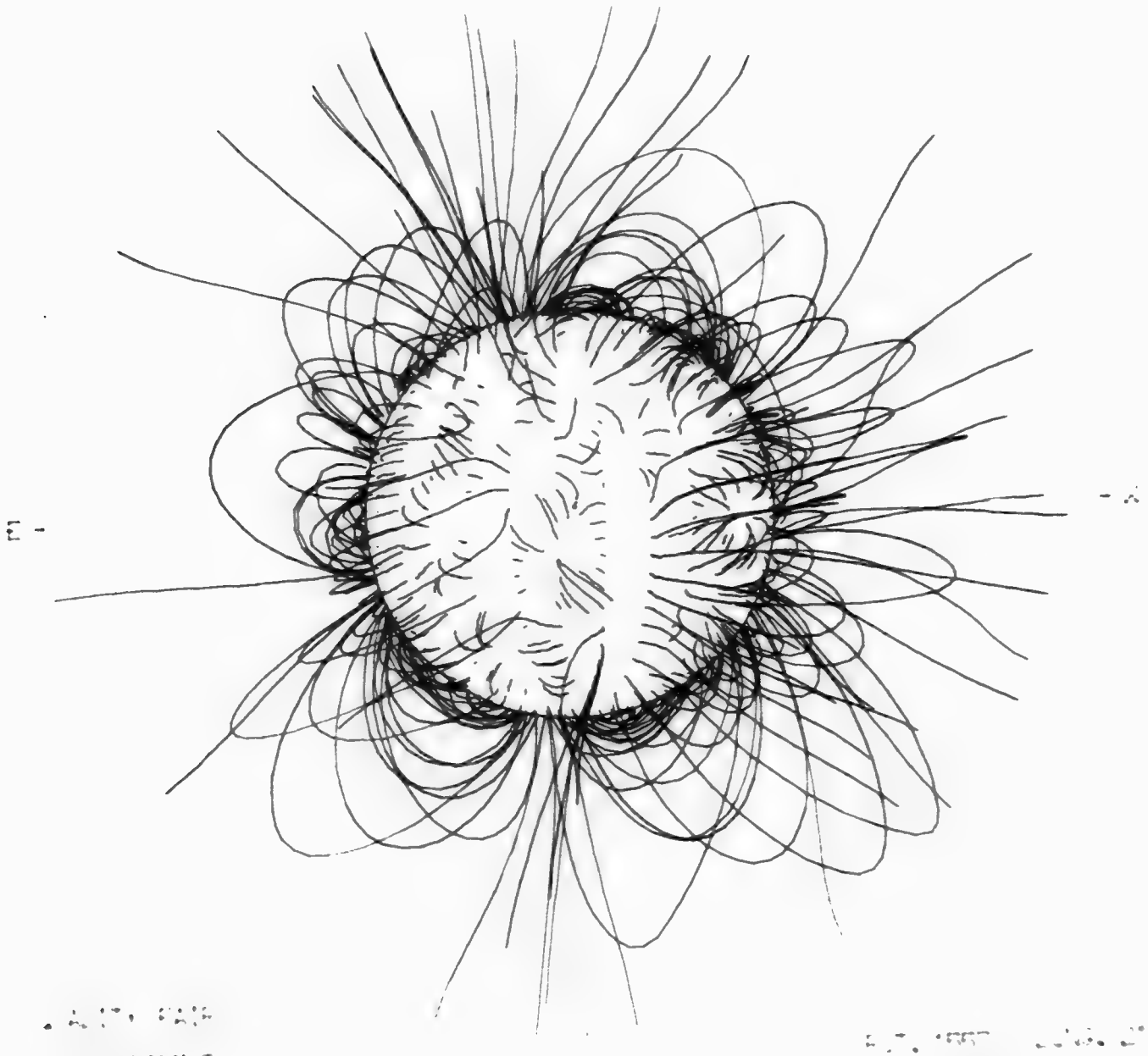
QUALITY FAIR
POLES DIRECT
DATA AVAILABLE [illegible]

ROT. 1557 LONG. 221°
[illegible]

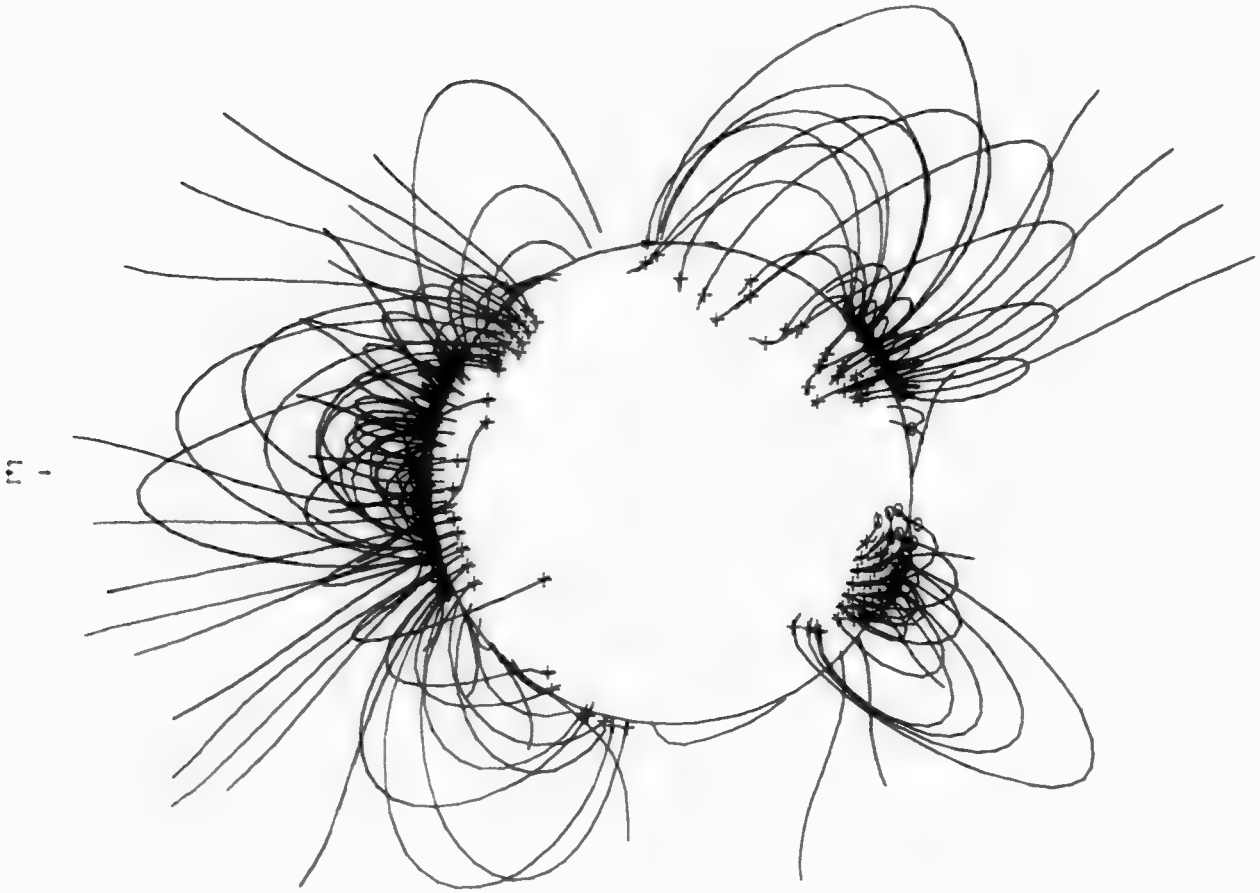
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



QUALITY FAIR

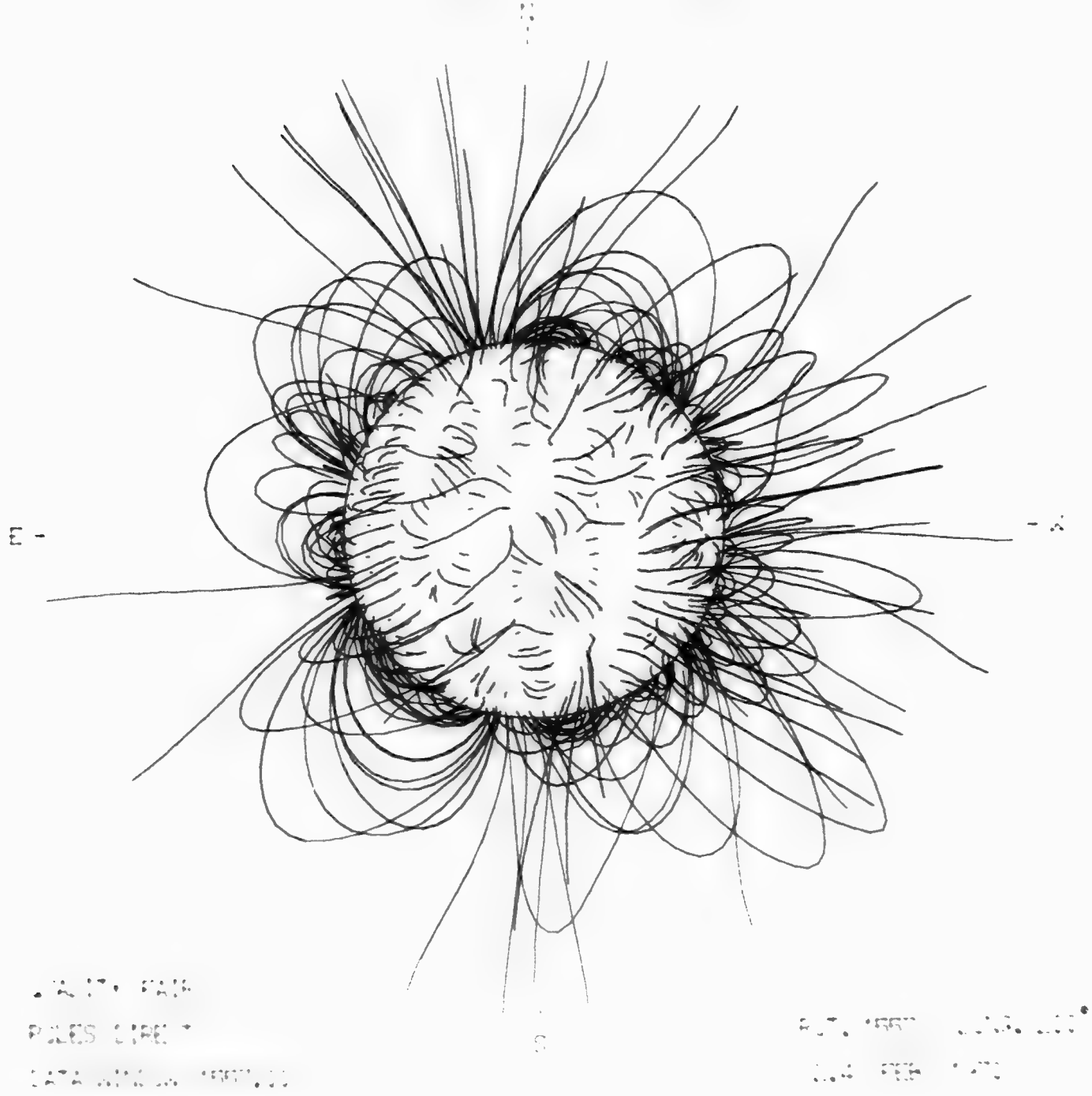
RULES DIRECT

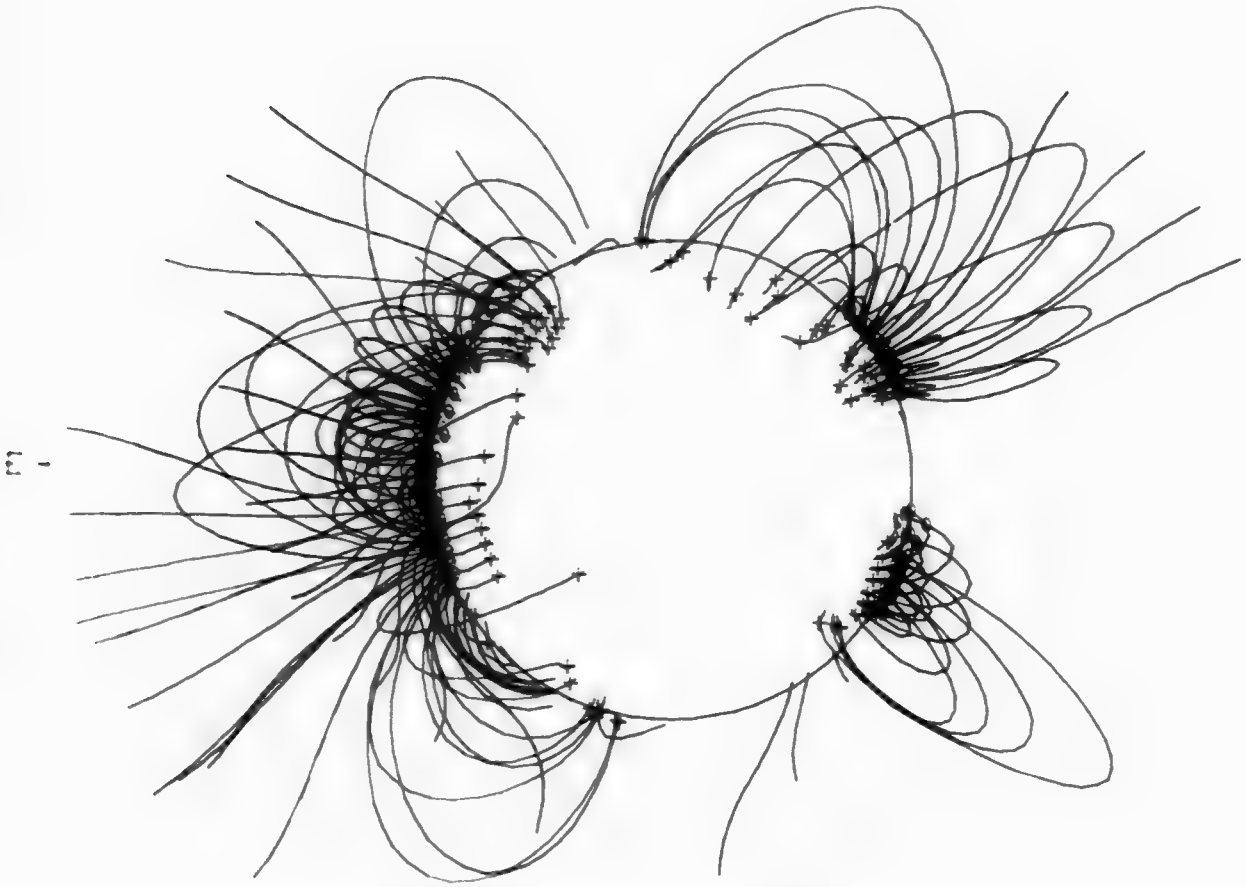
DATA [illegible]

[illegible] 1557 [illegible]

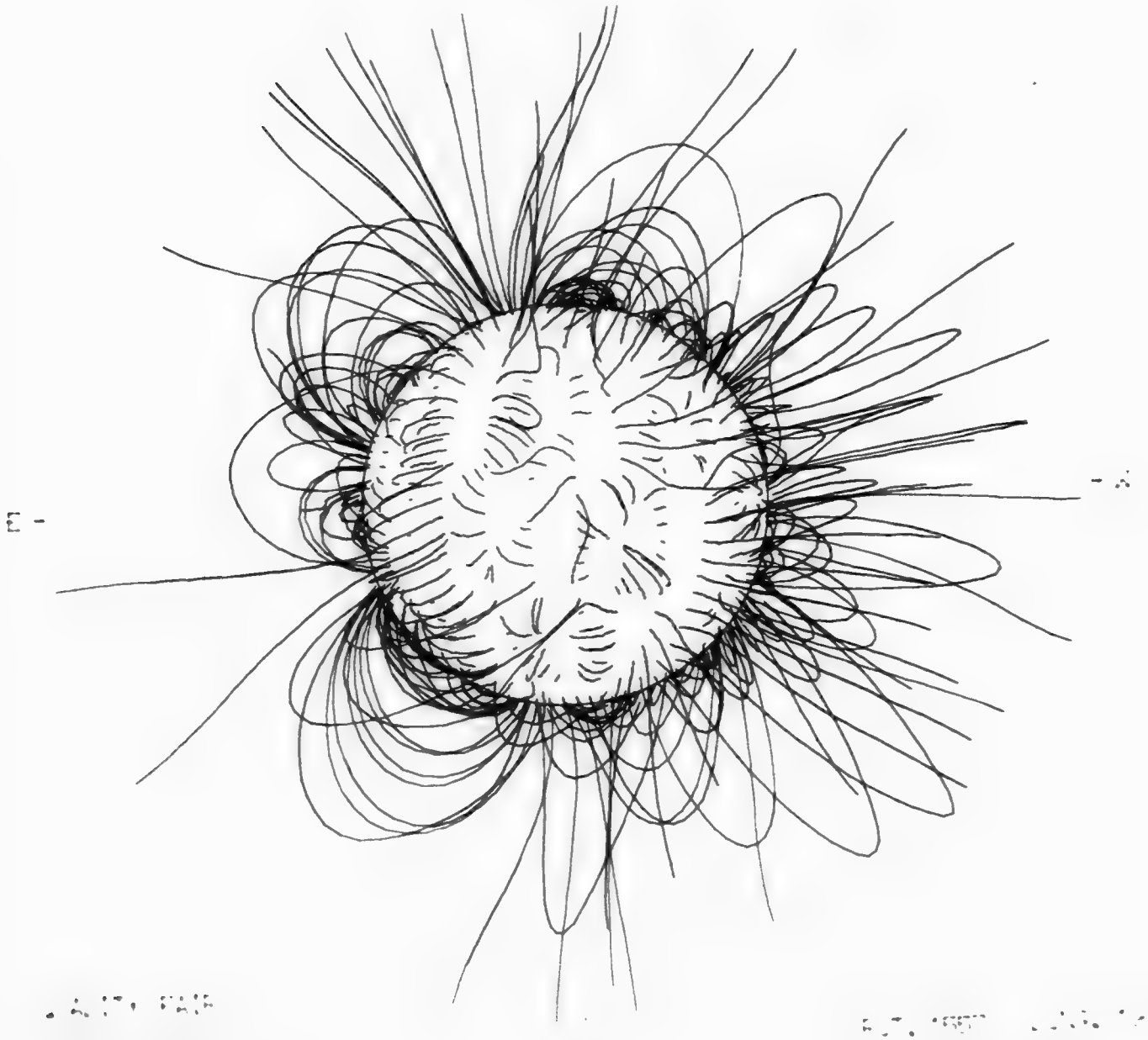
[illegible] PER [illegible]

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

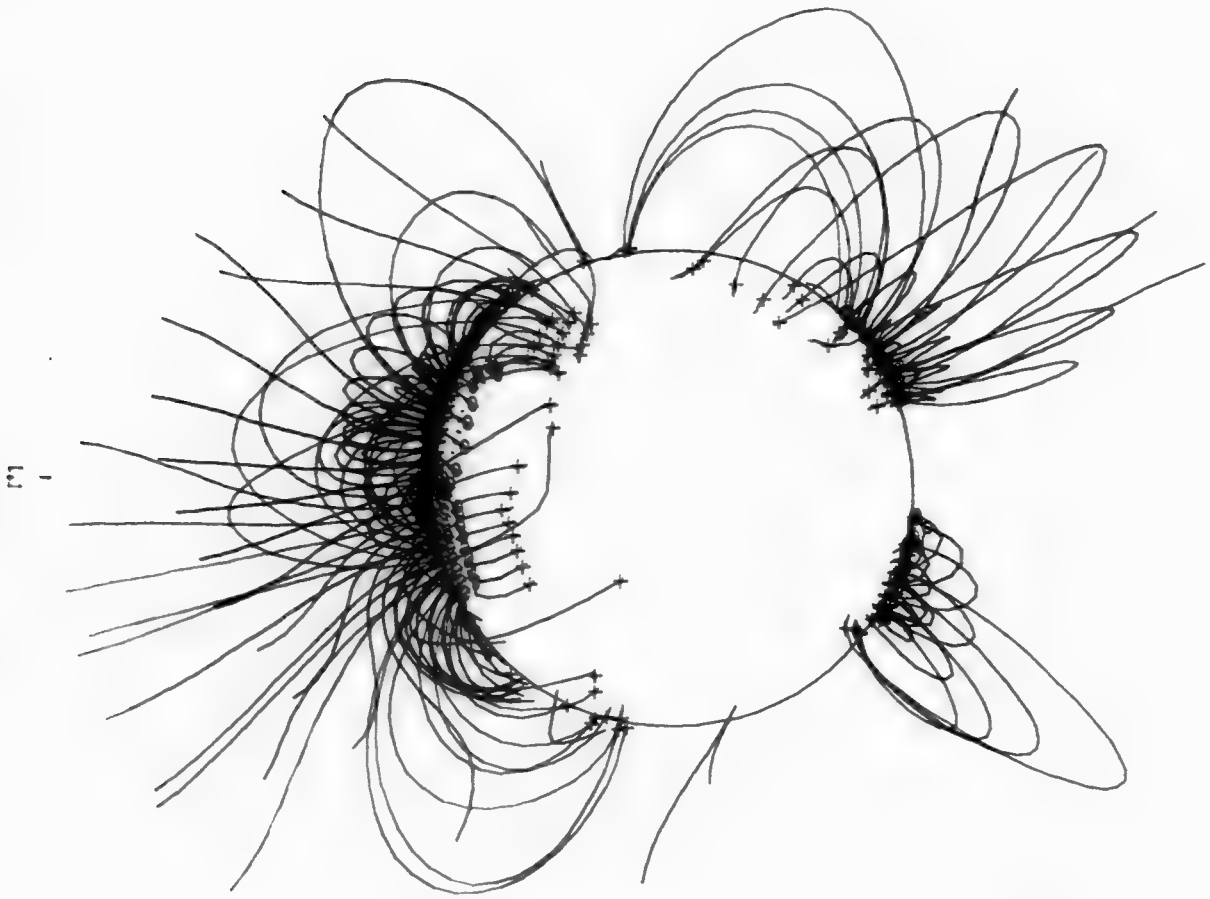



E -
- A

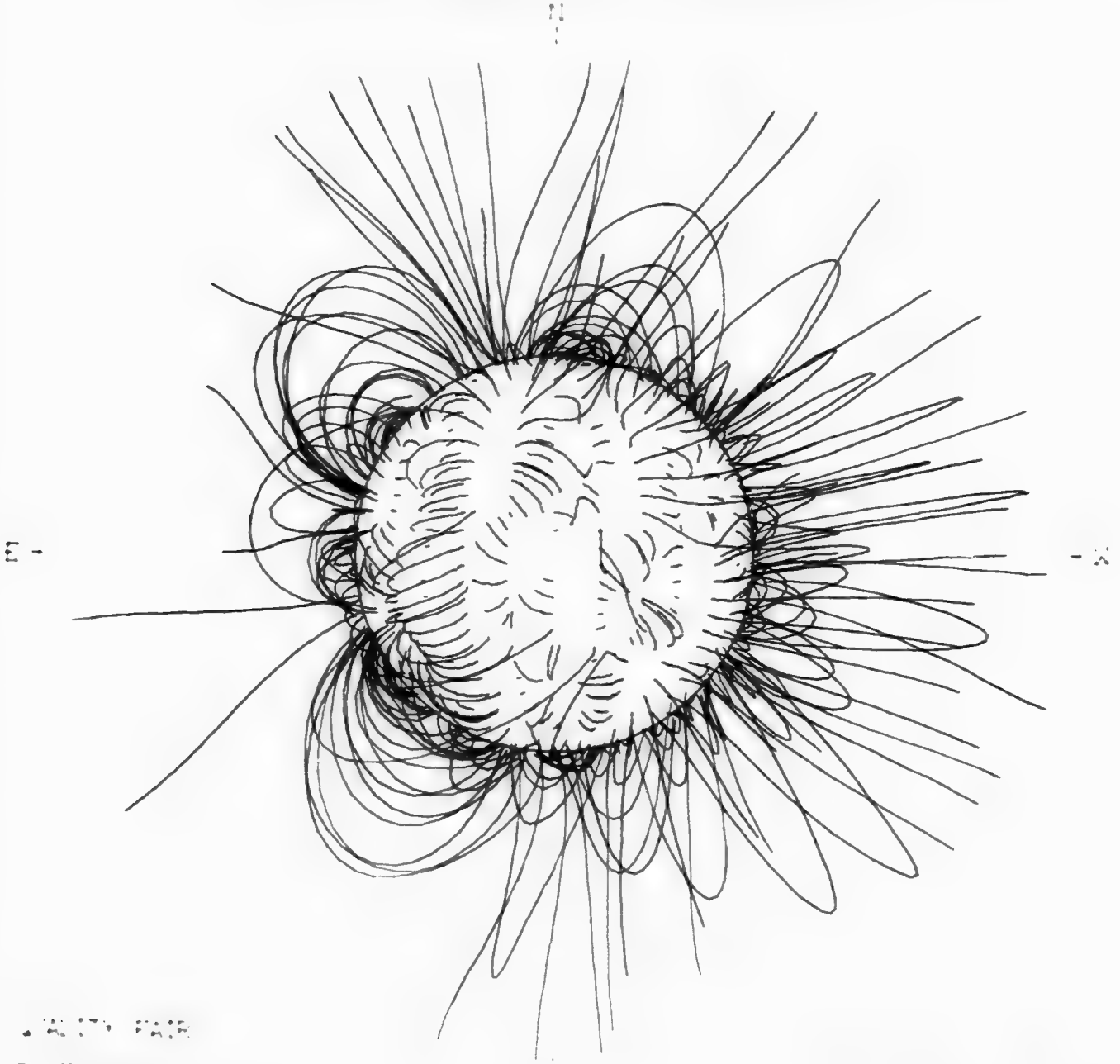
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



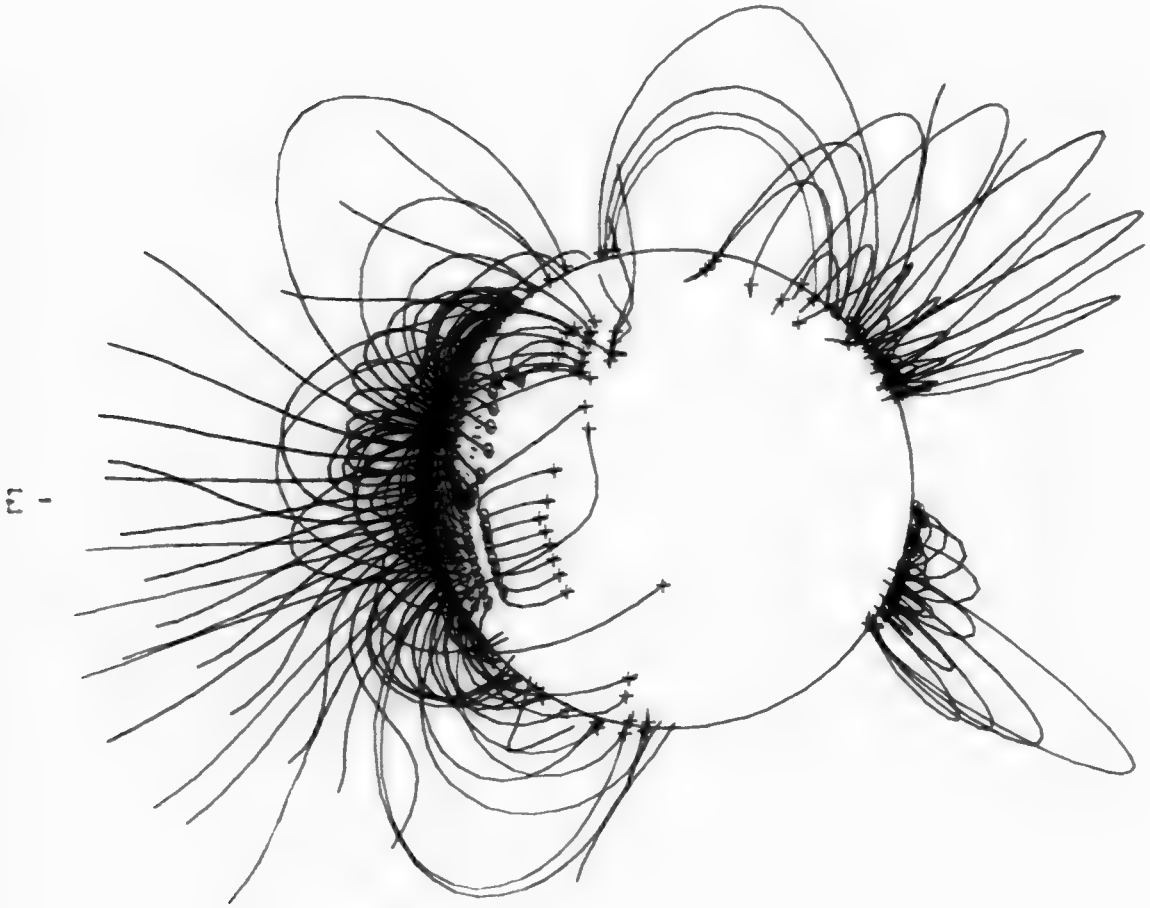
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



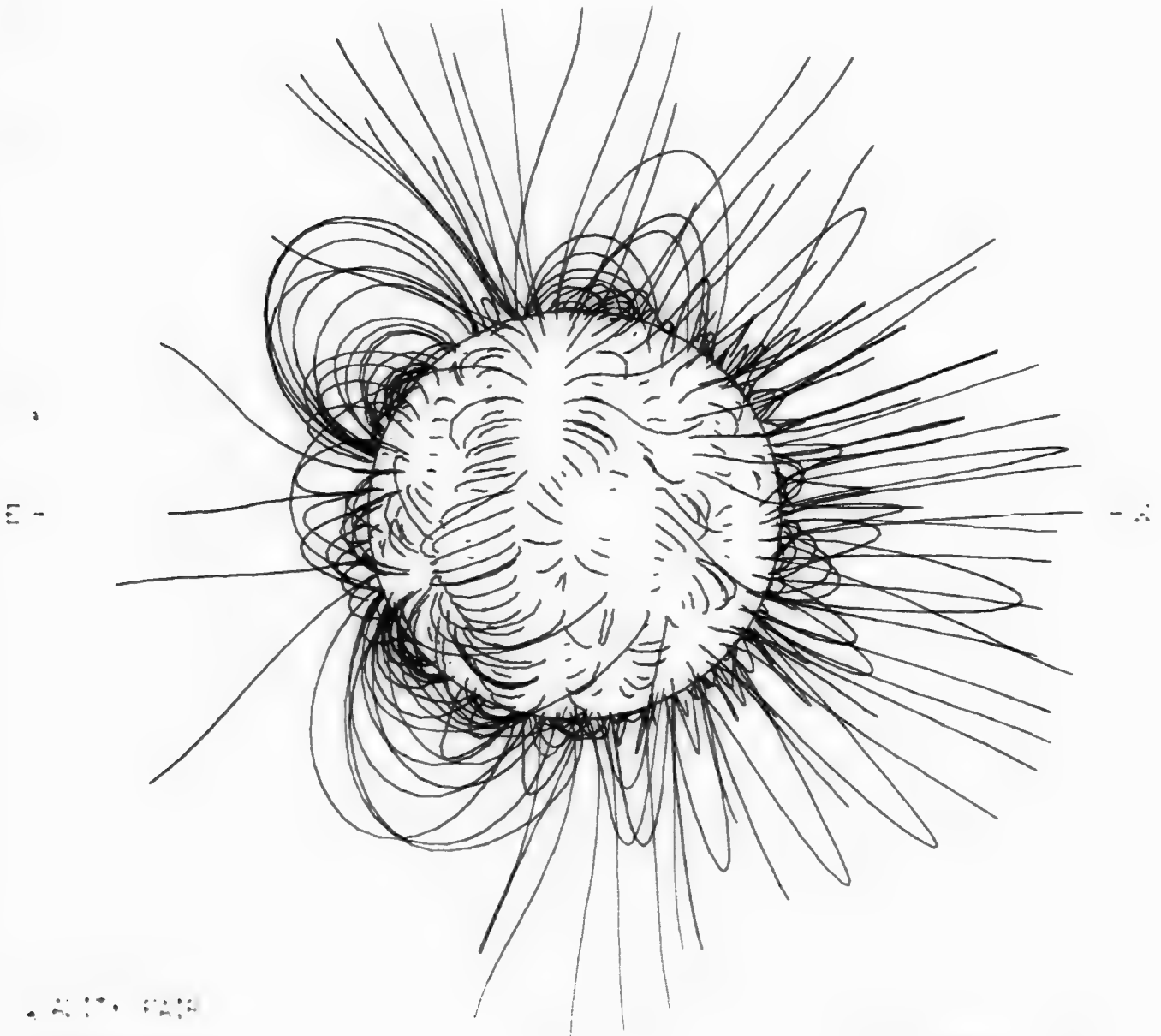
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



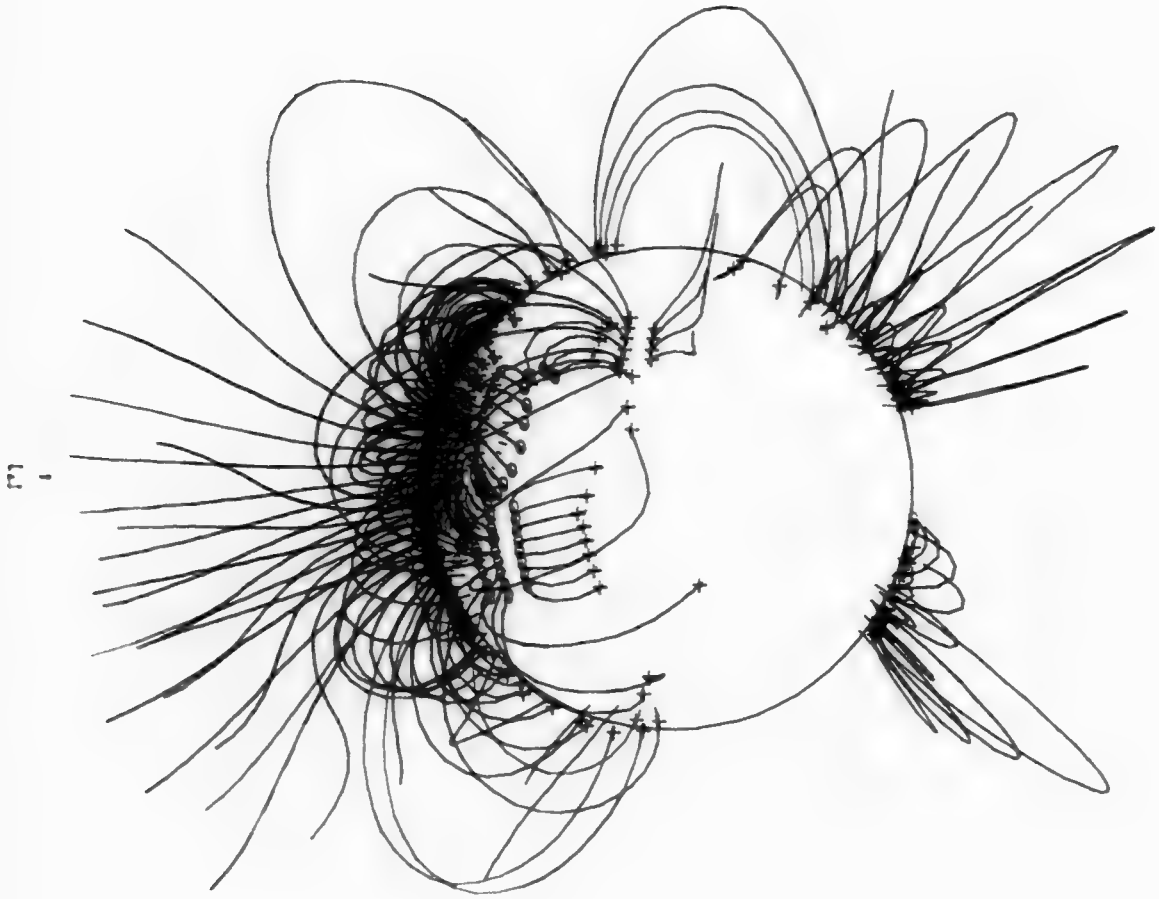
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



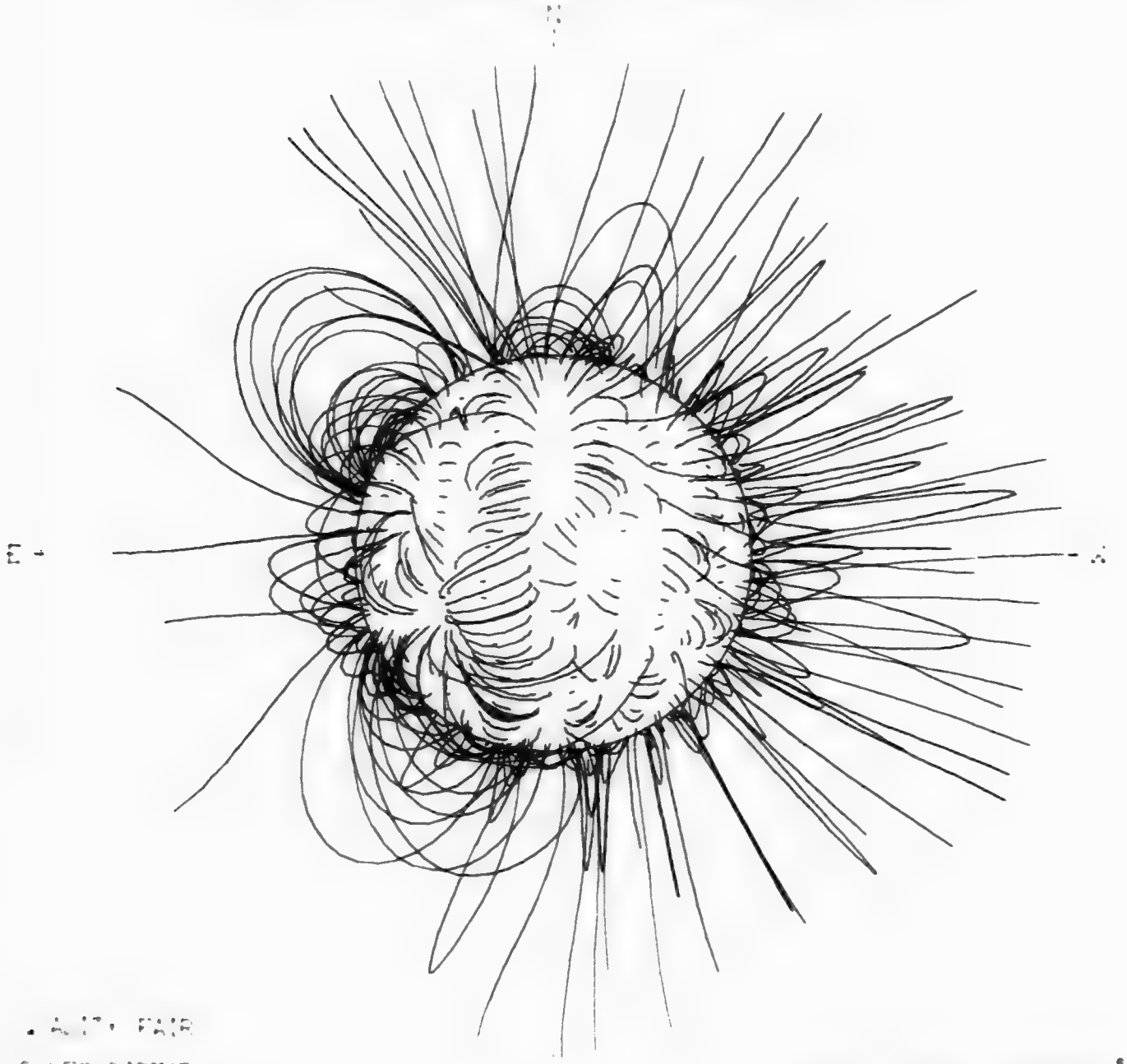
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



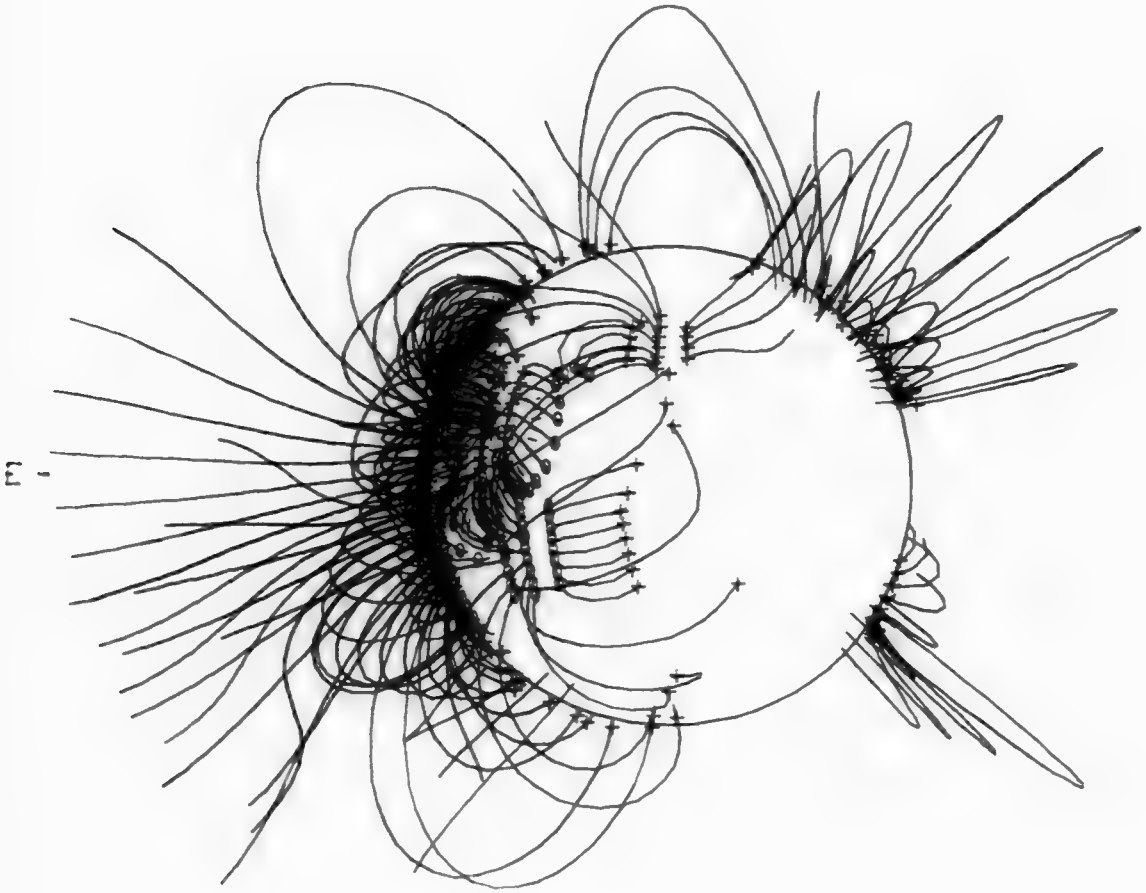
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

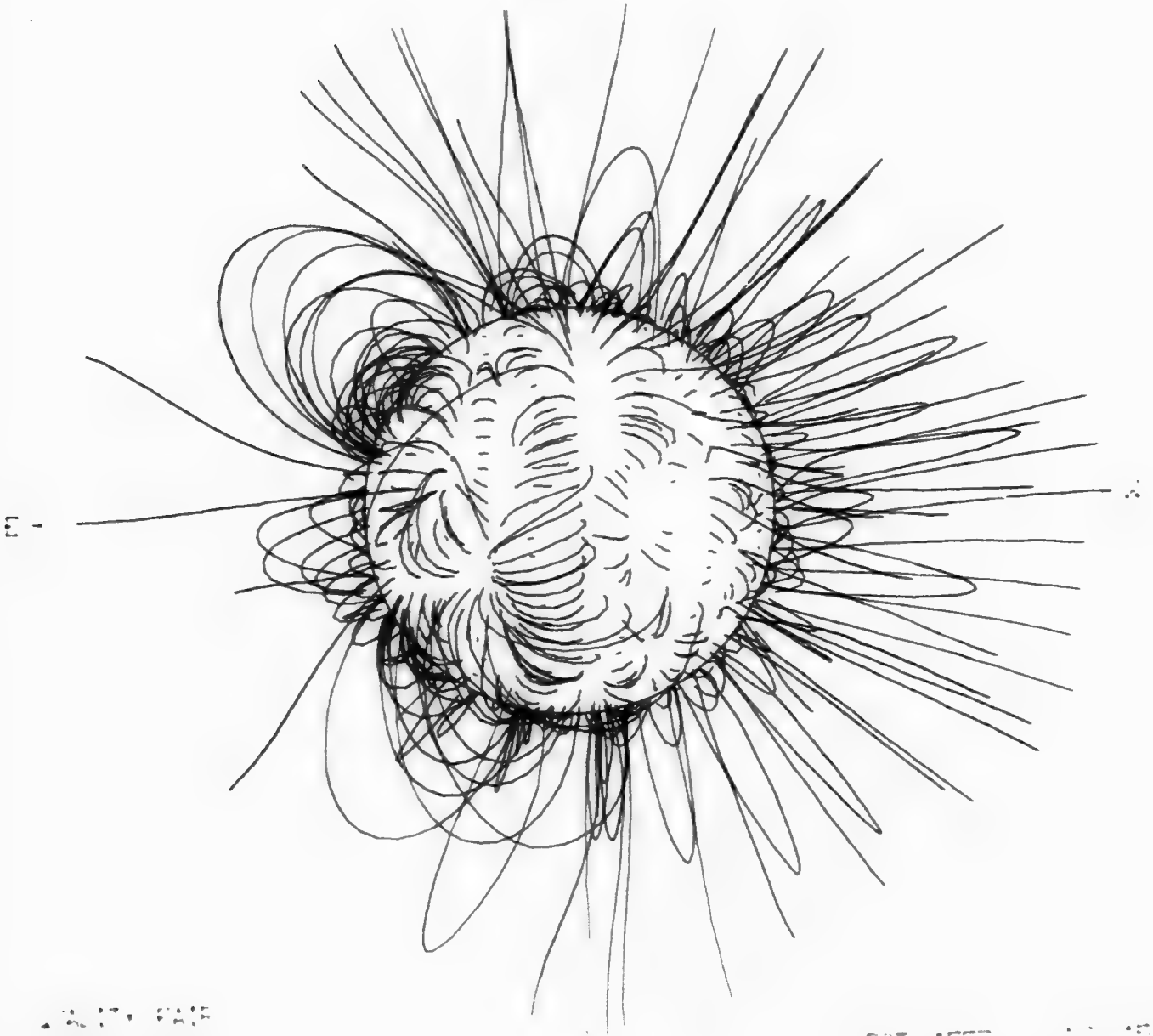


HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

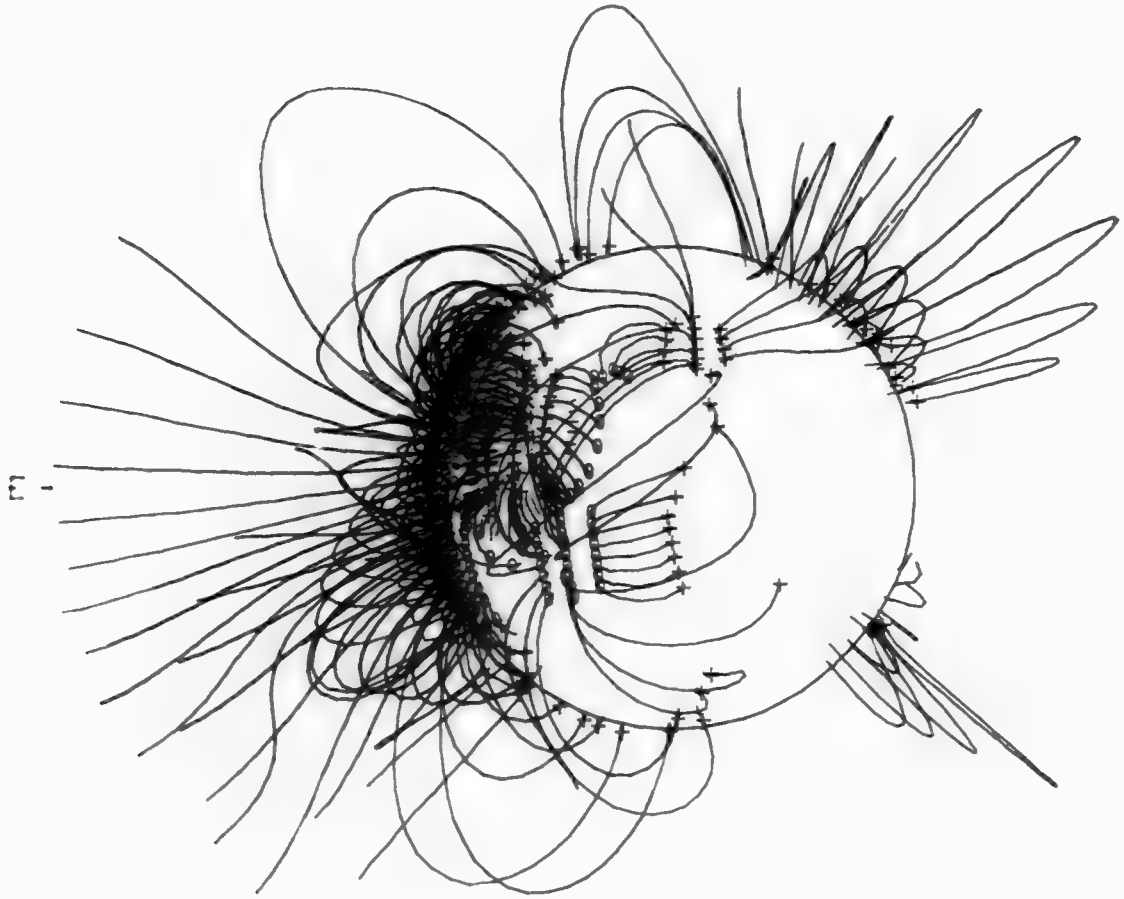


QUALITY FAIR

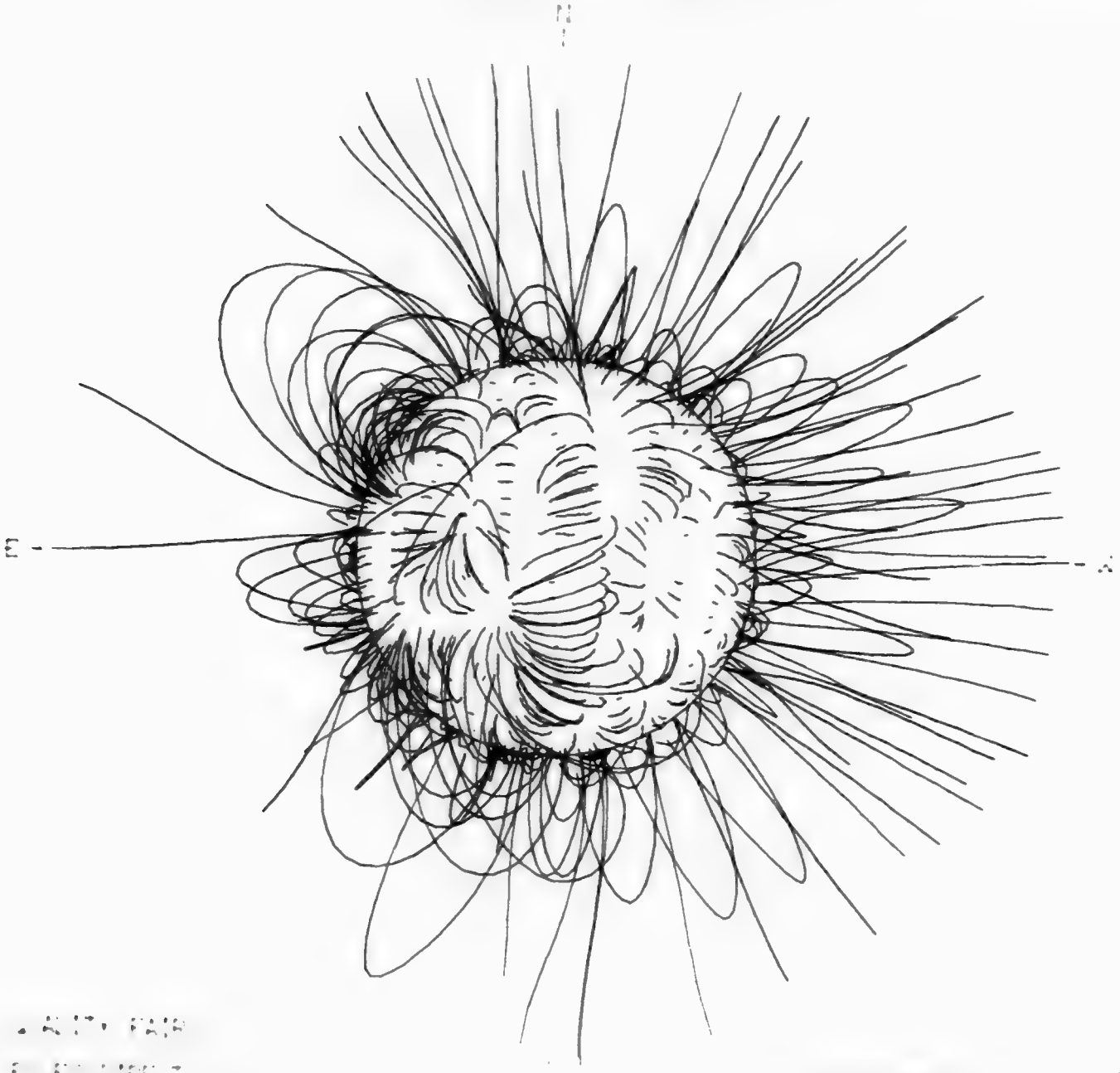
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



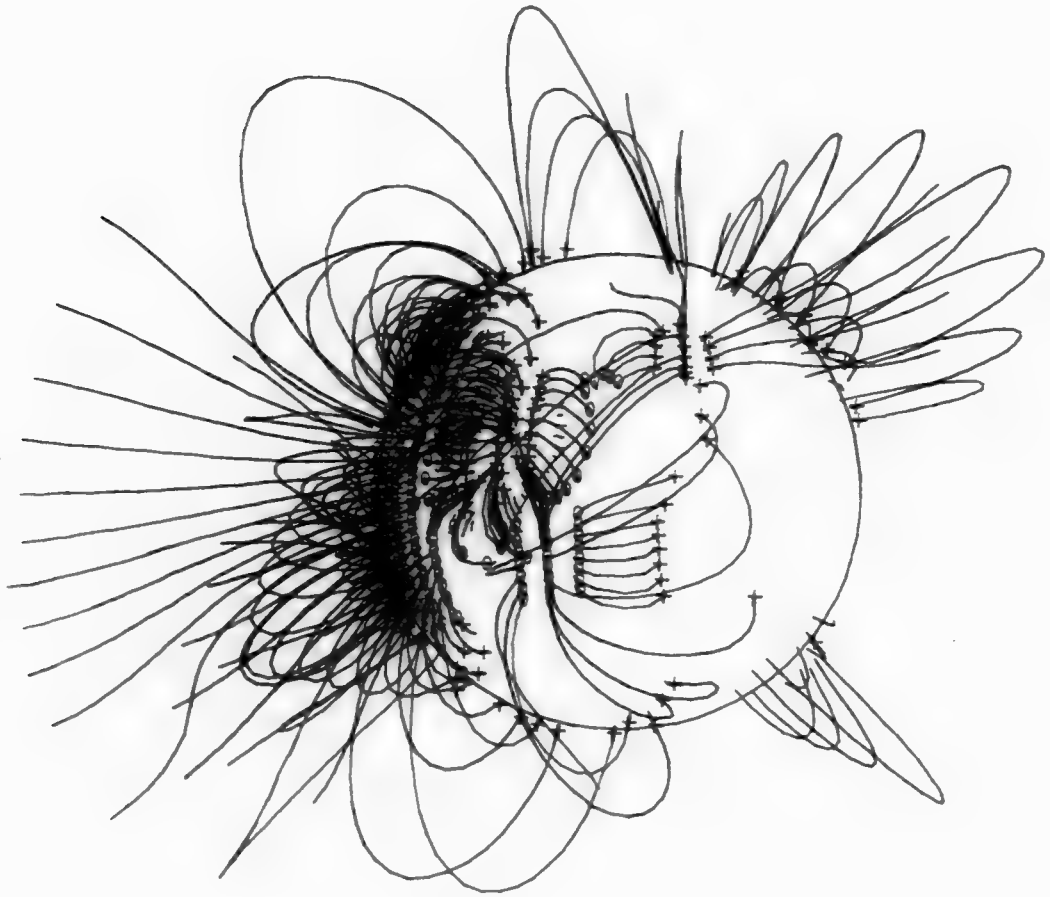
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



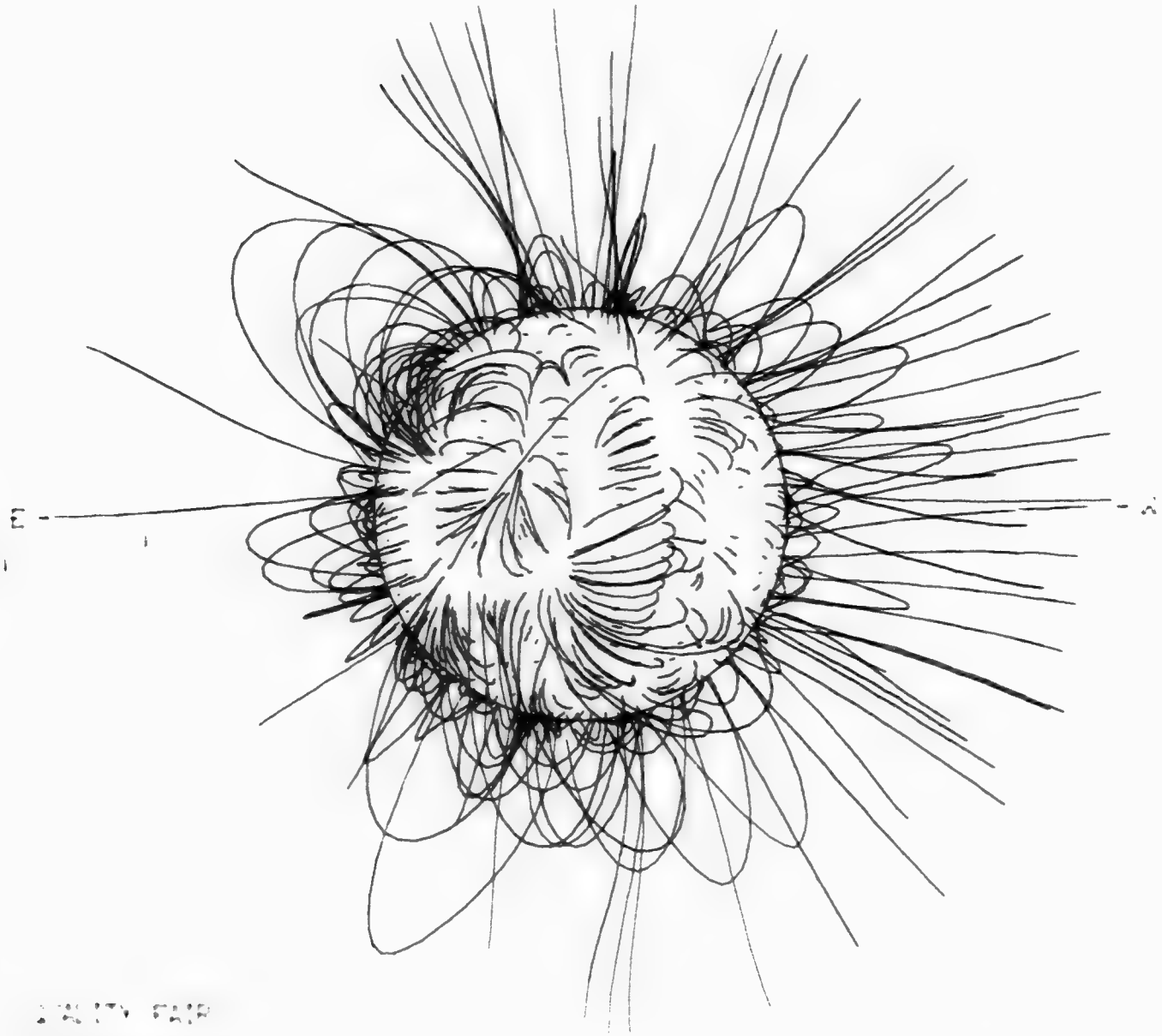
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



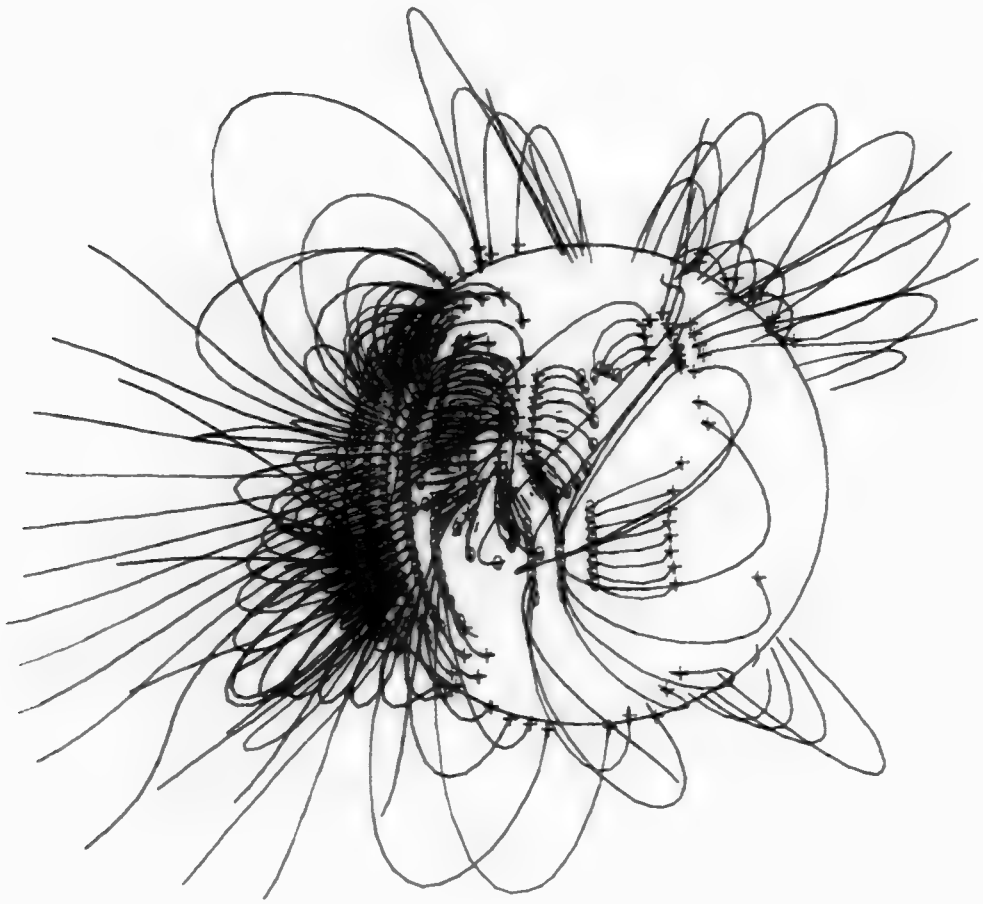
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



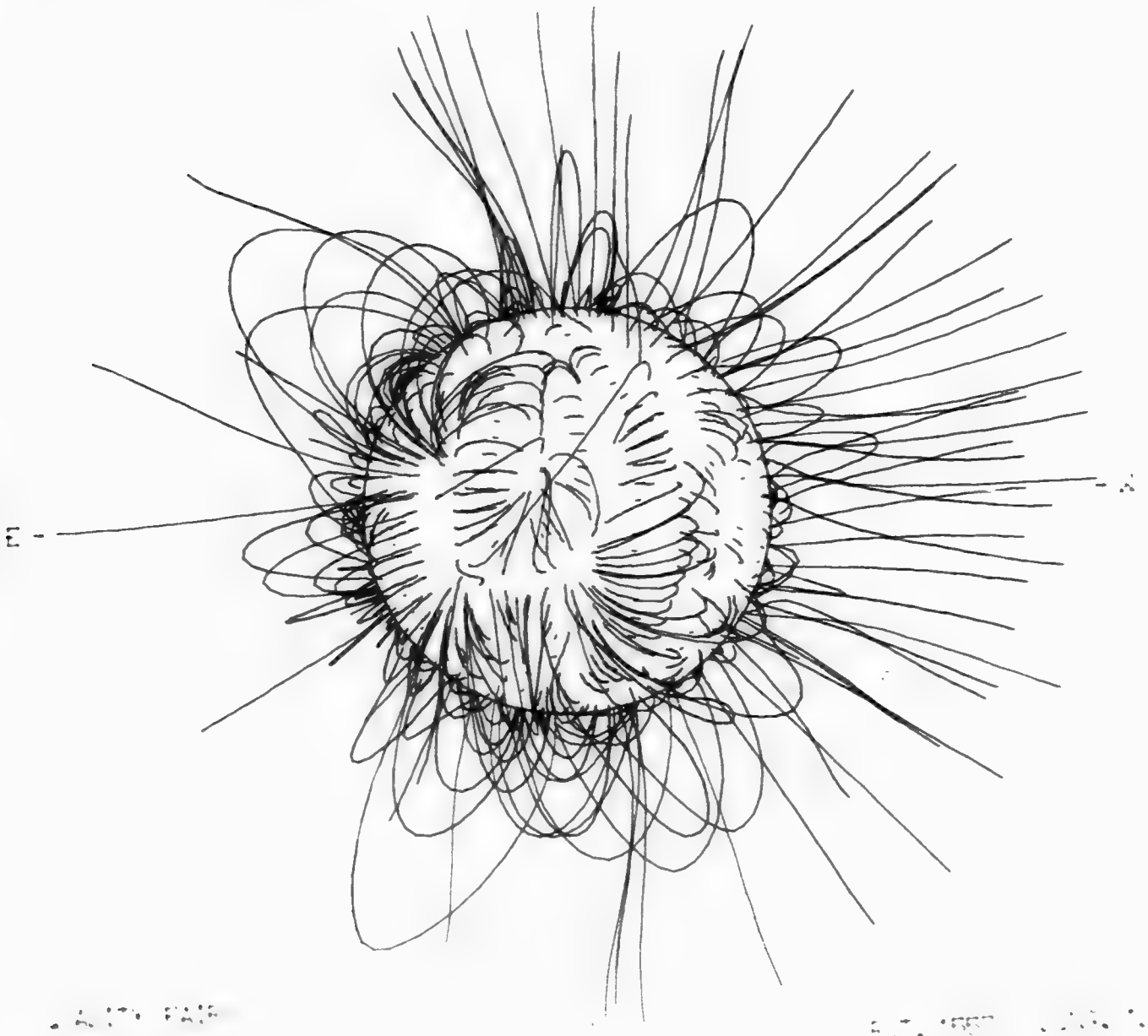
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



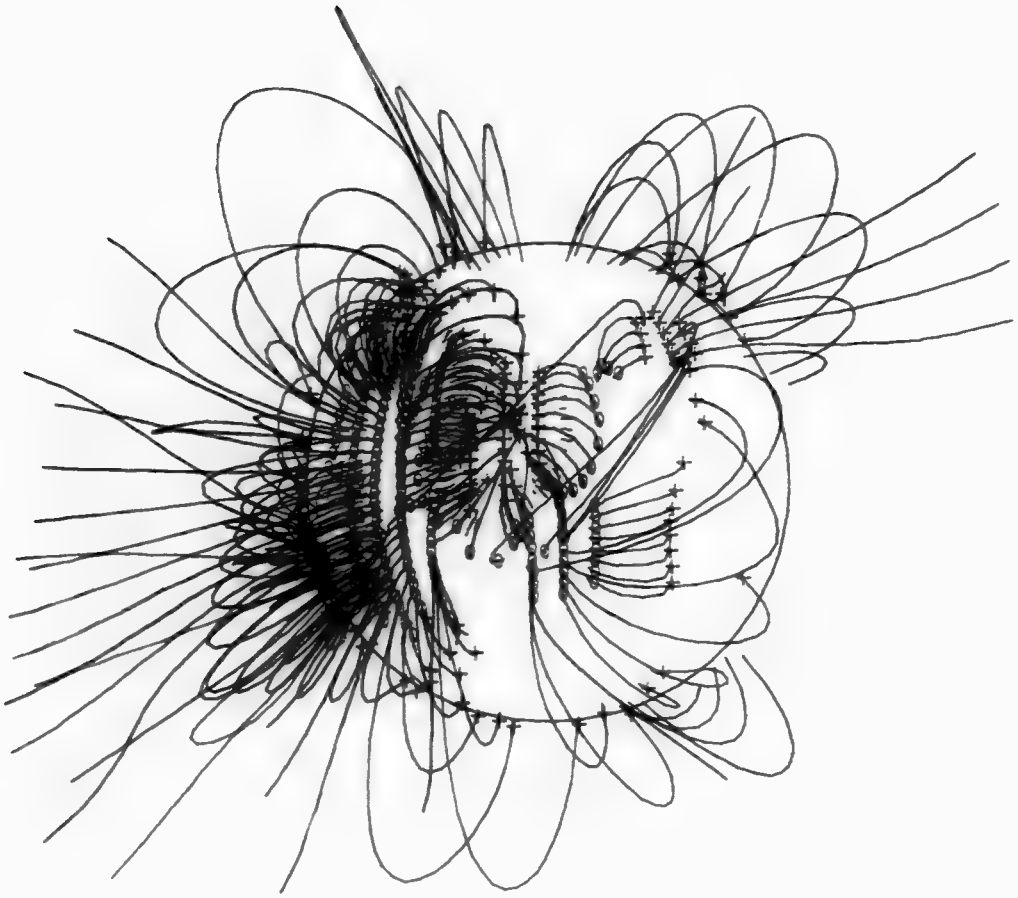
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



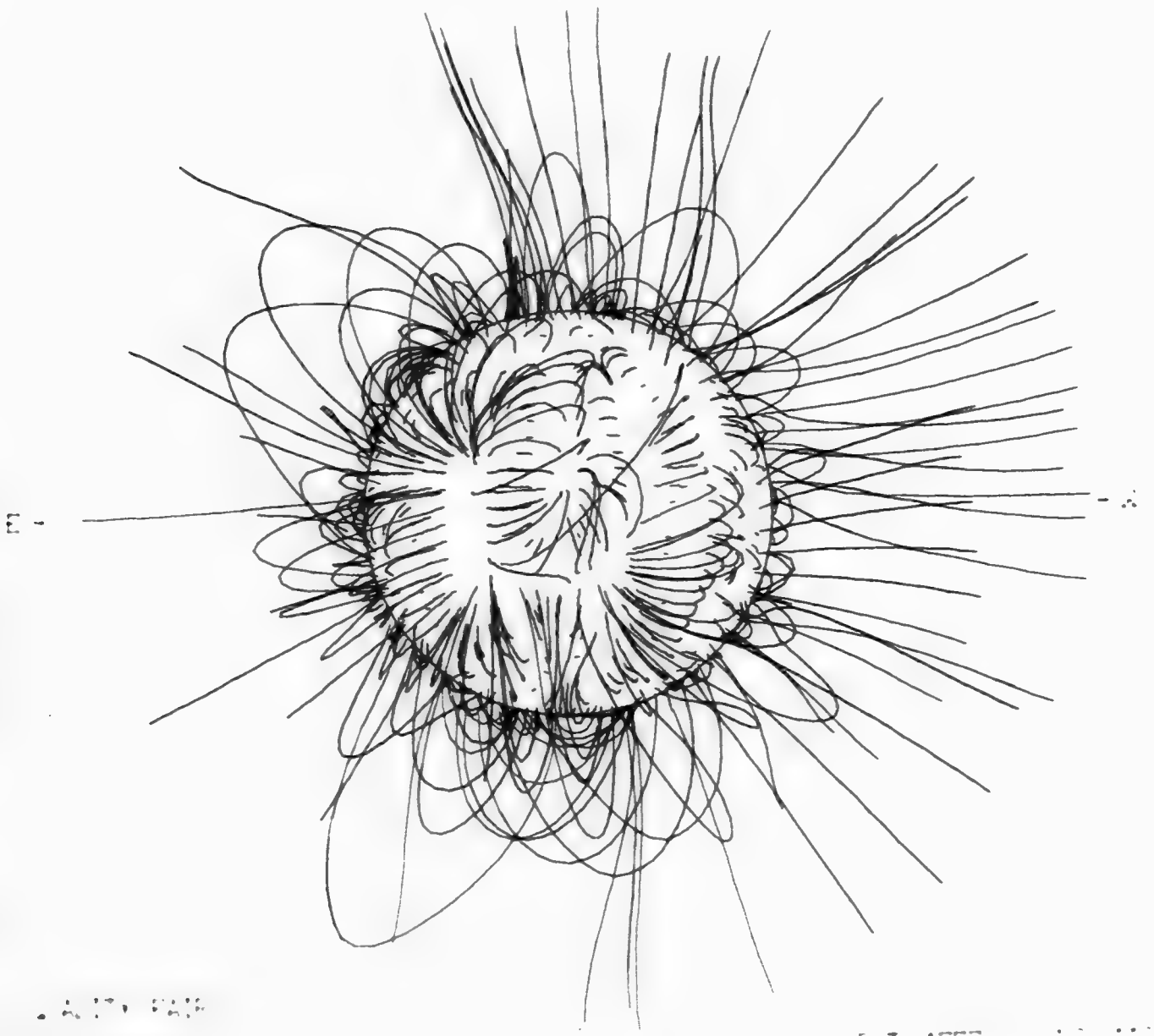
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



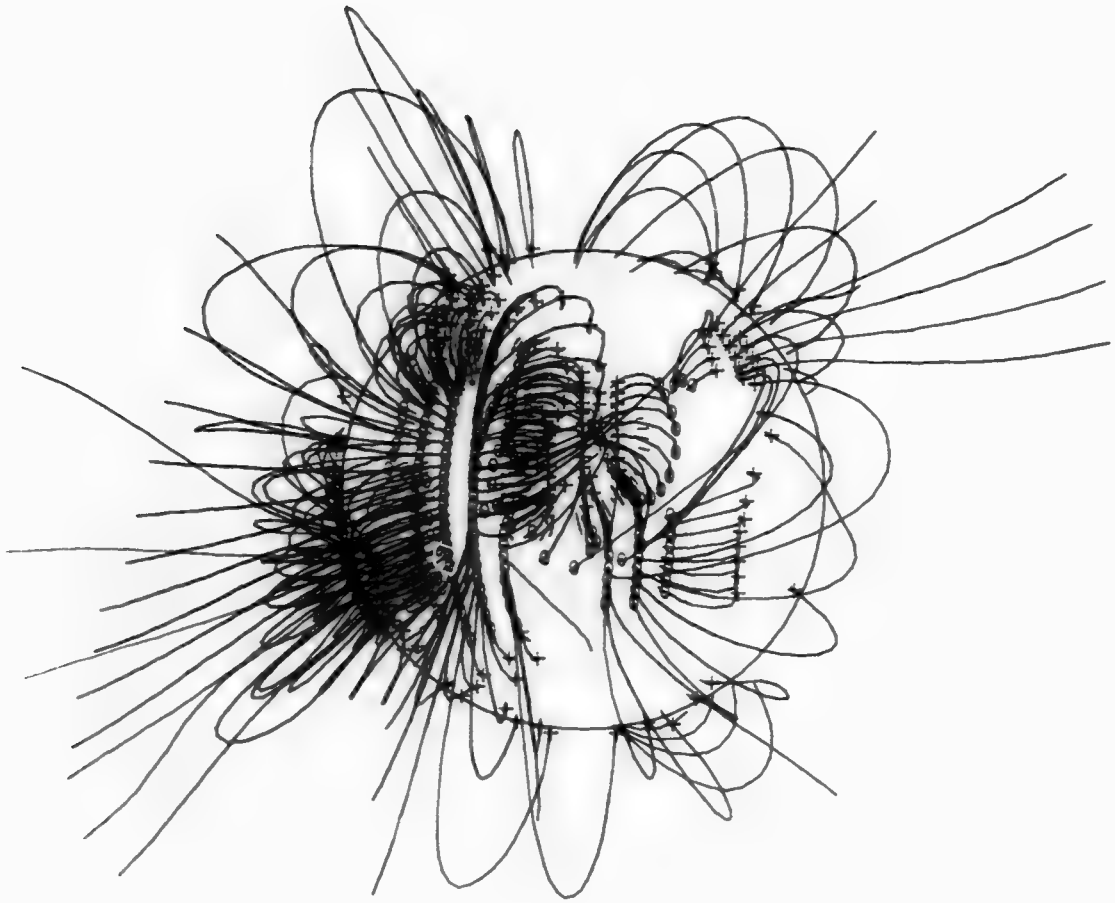
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



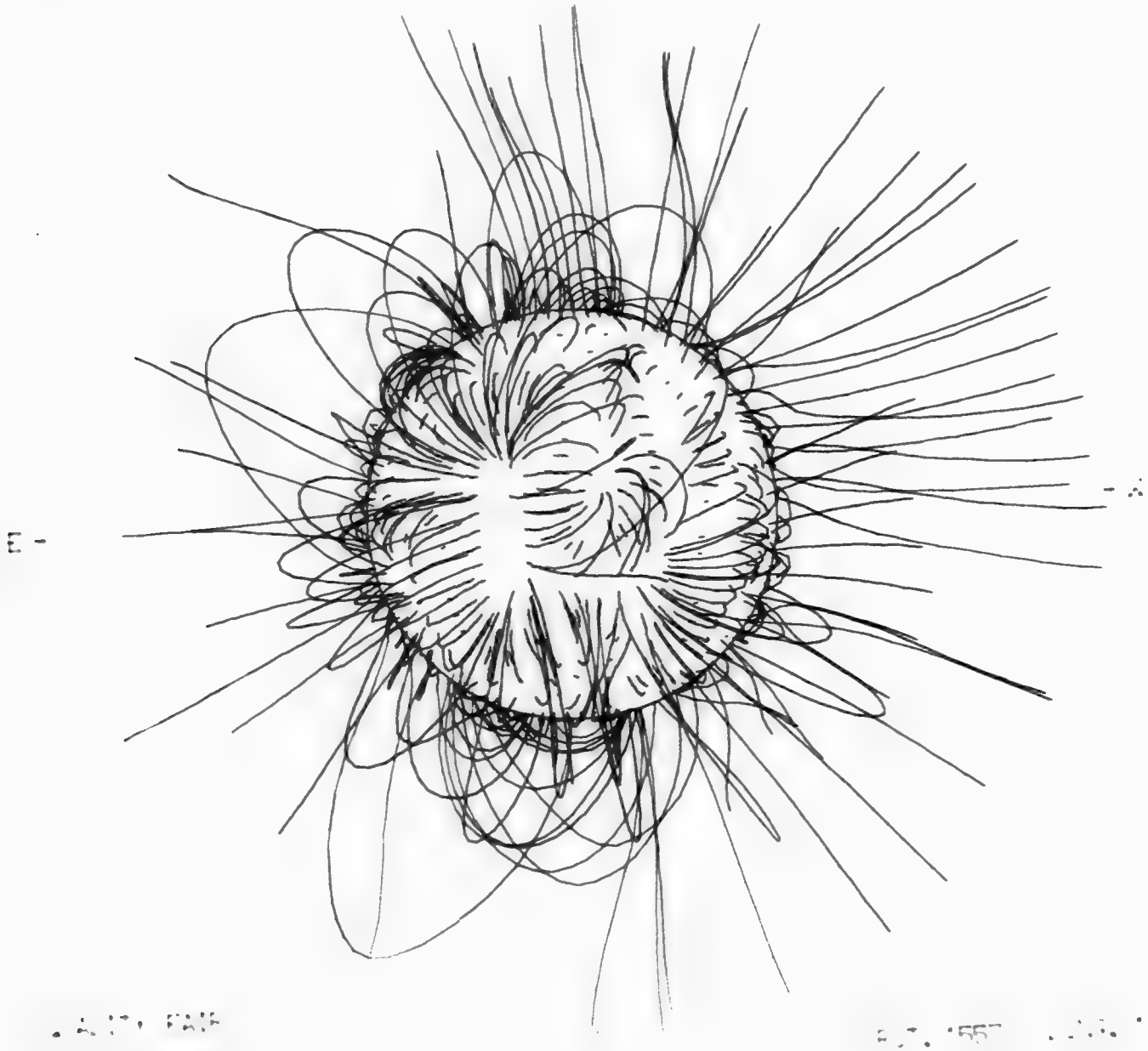
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



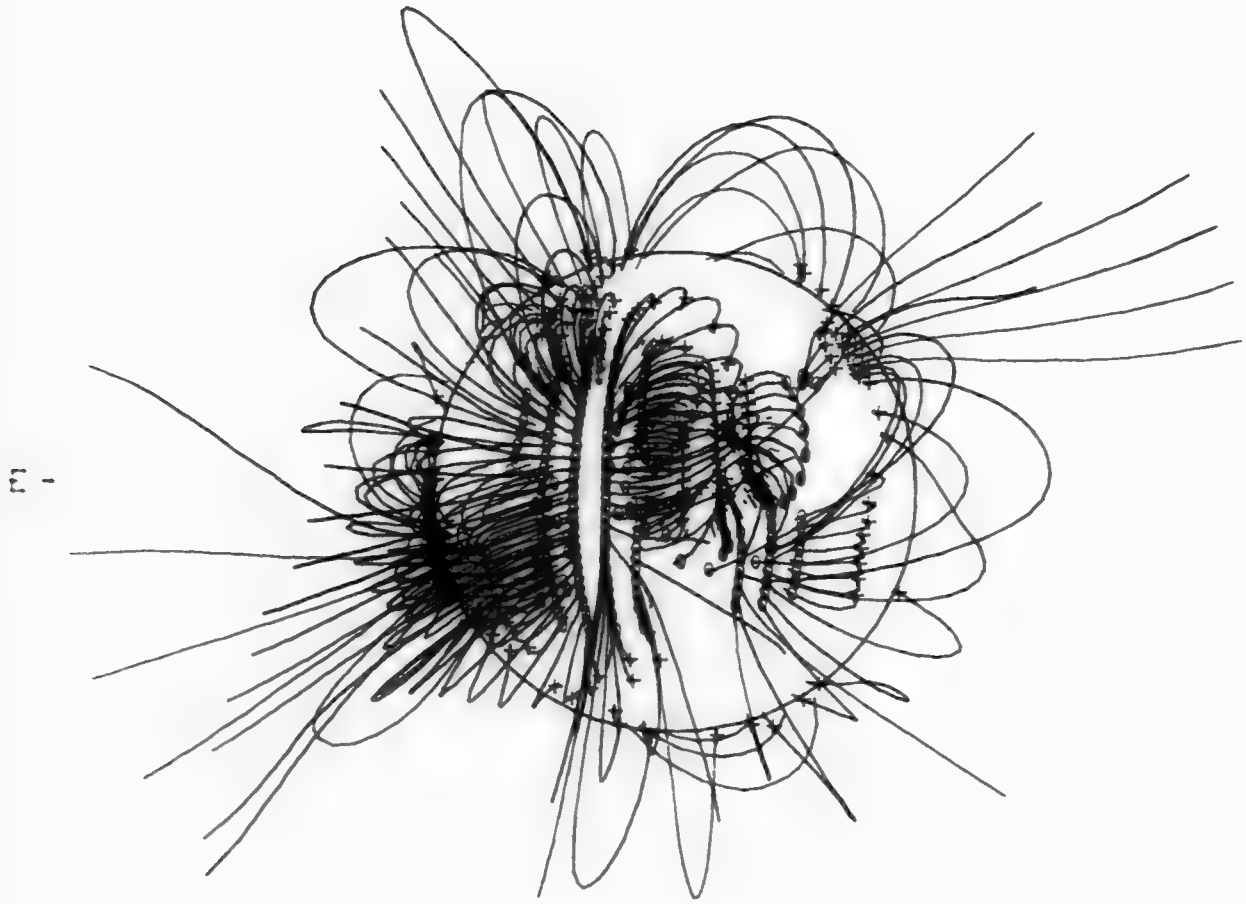
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



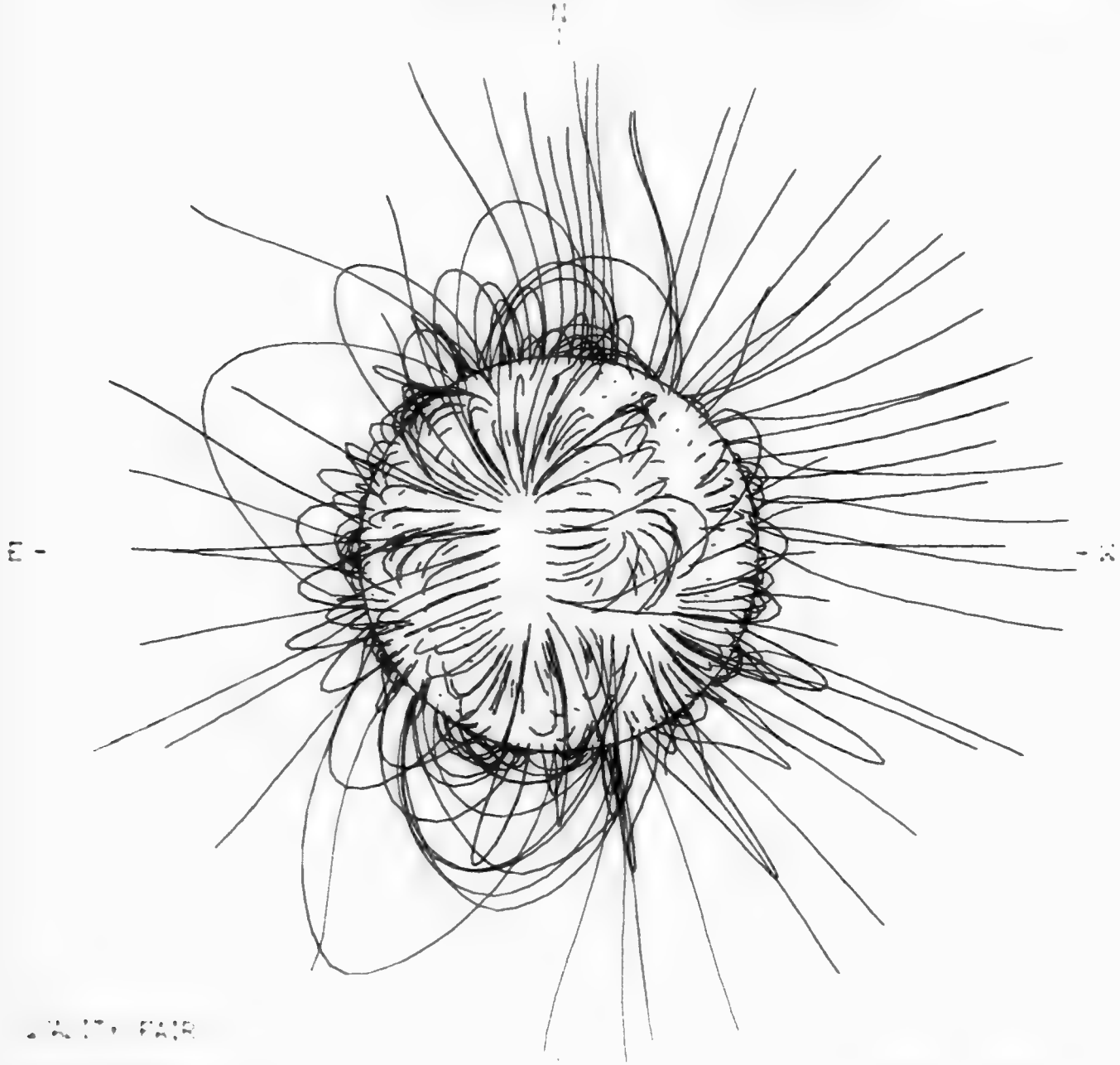
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



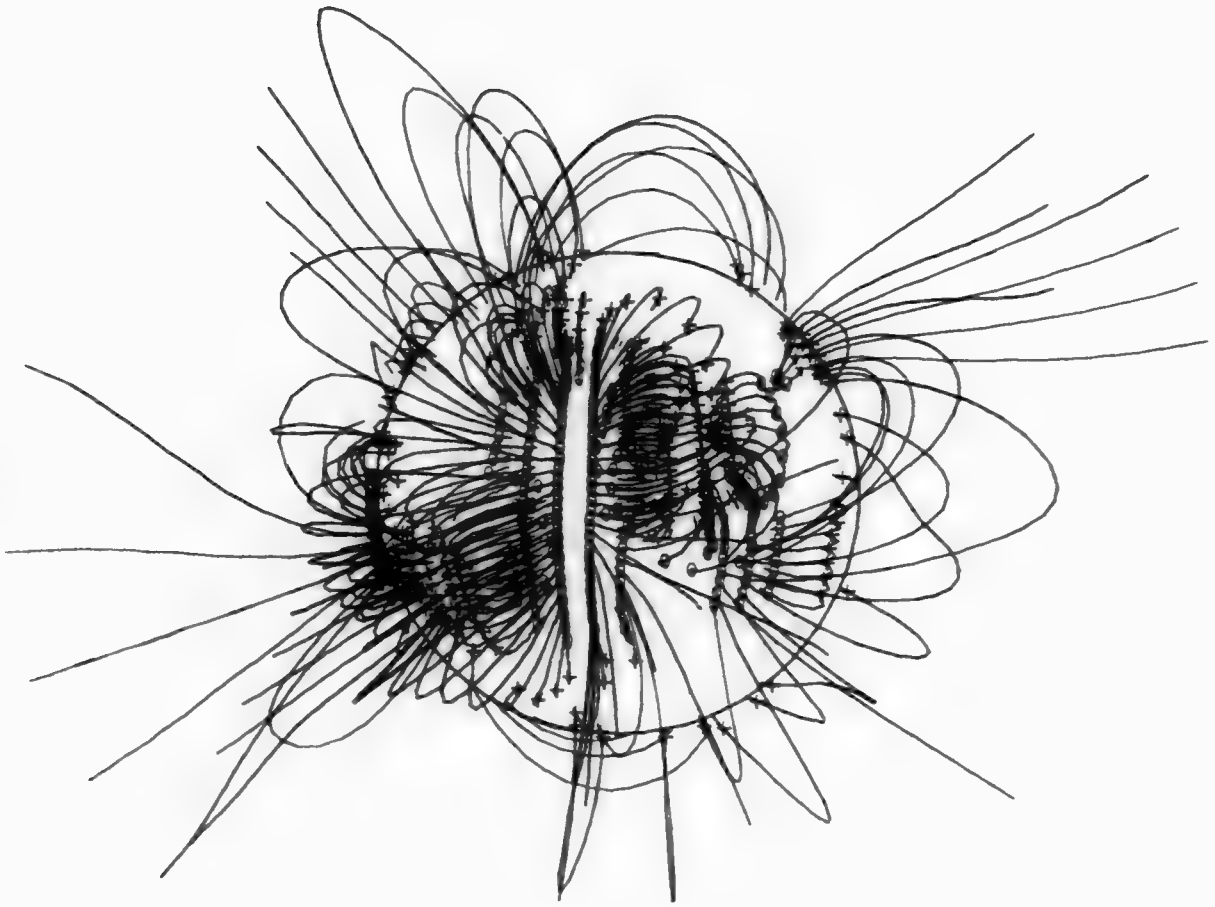
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



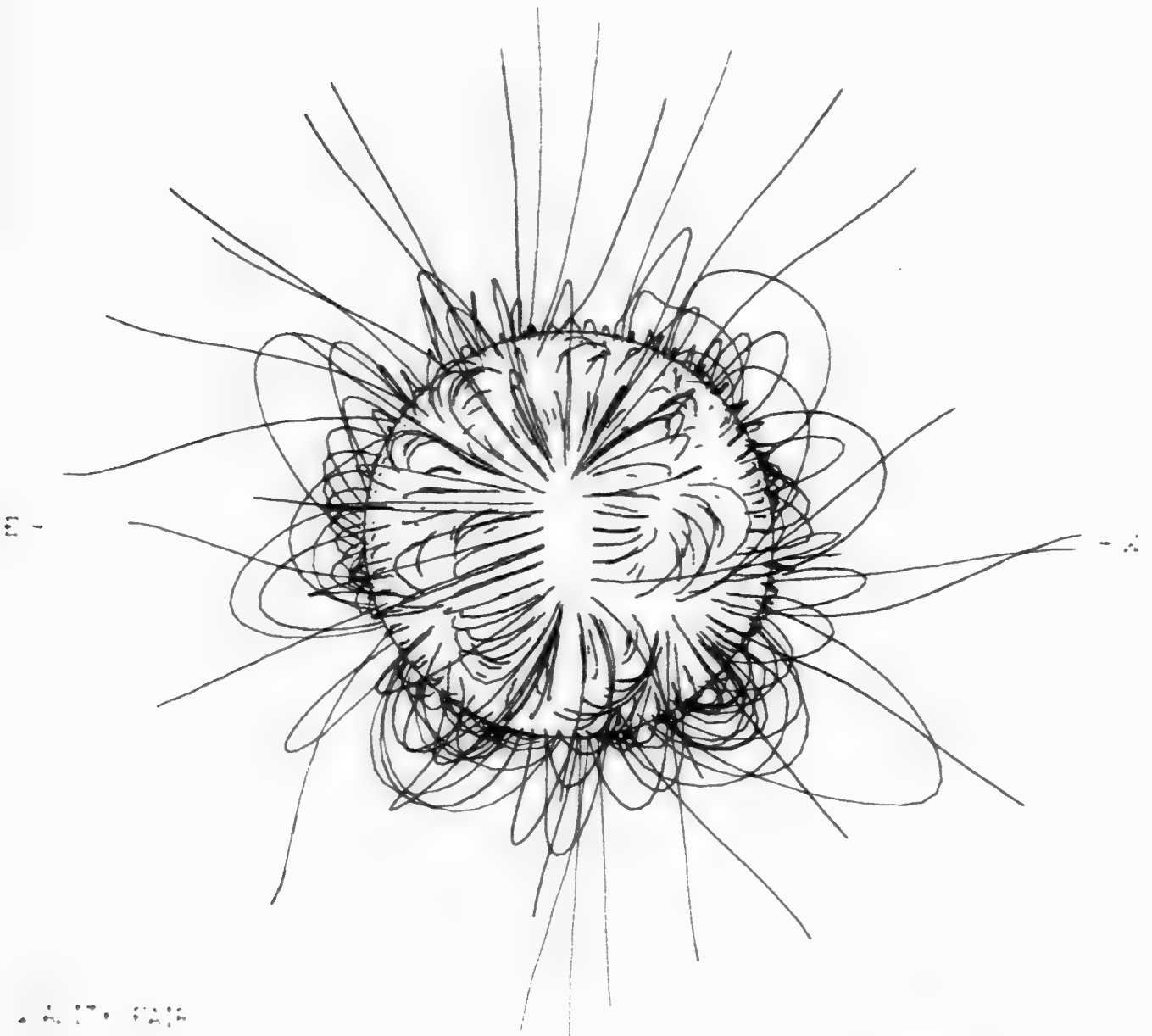
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



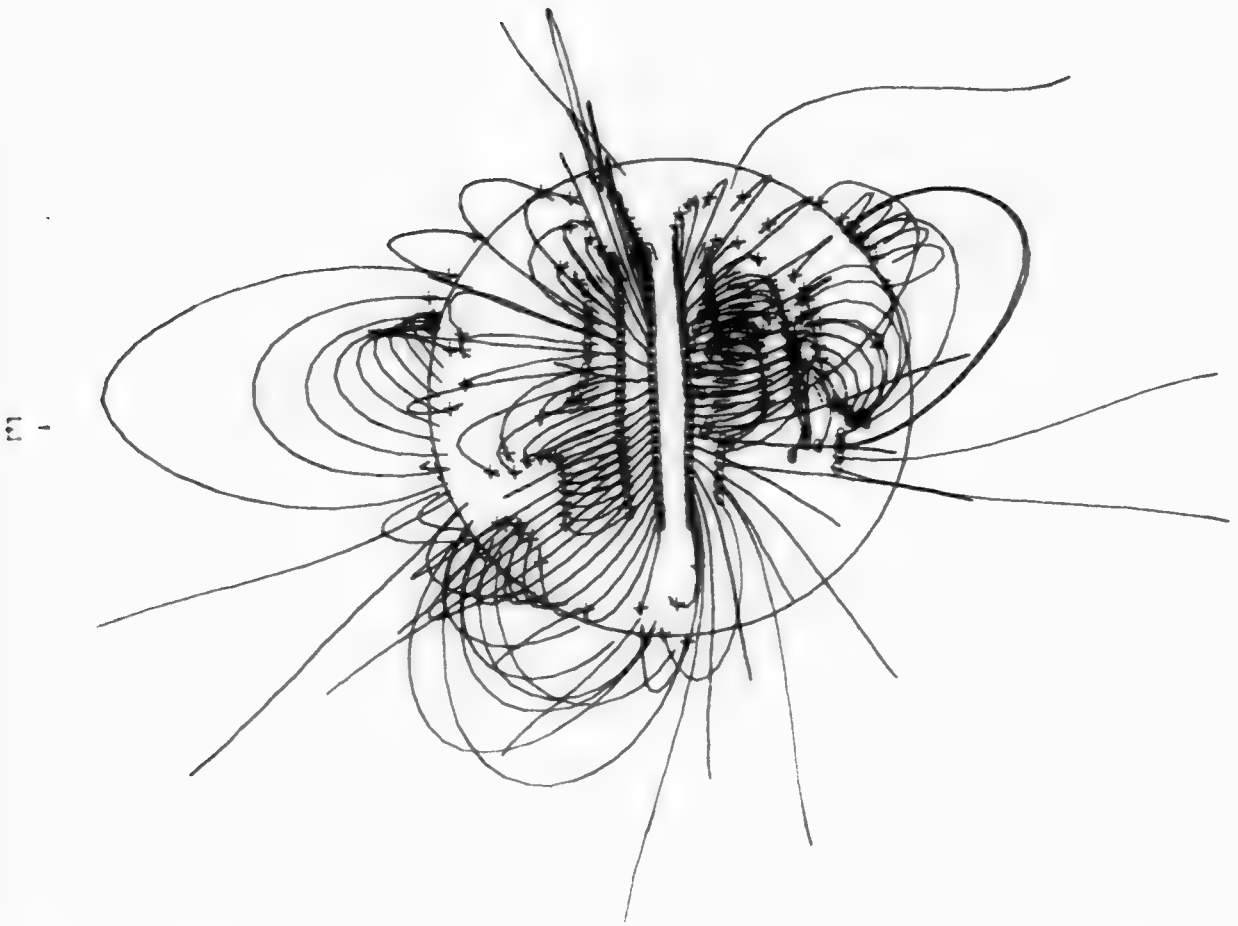
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



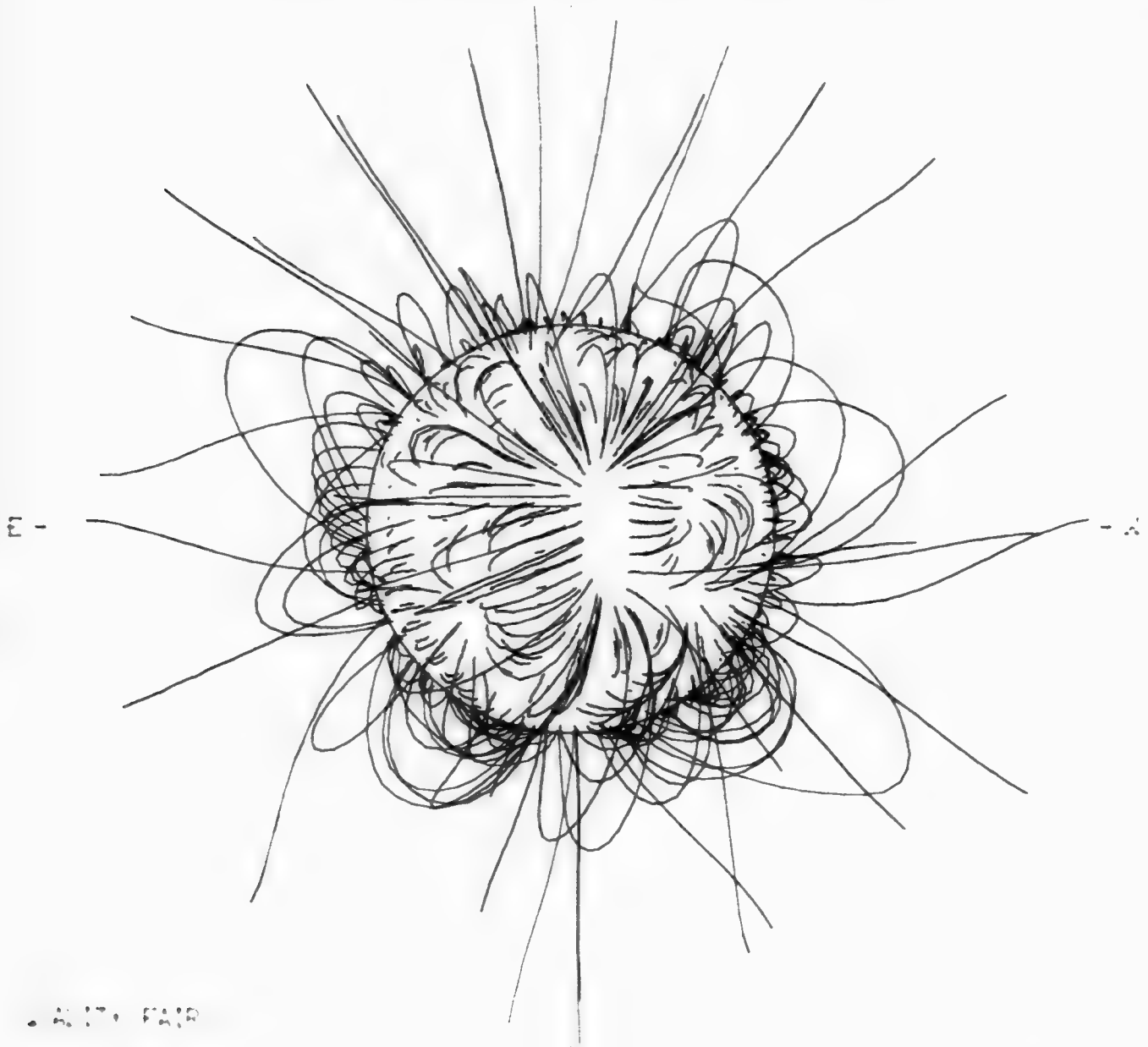
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



QUALITY FAIR

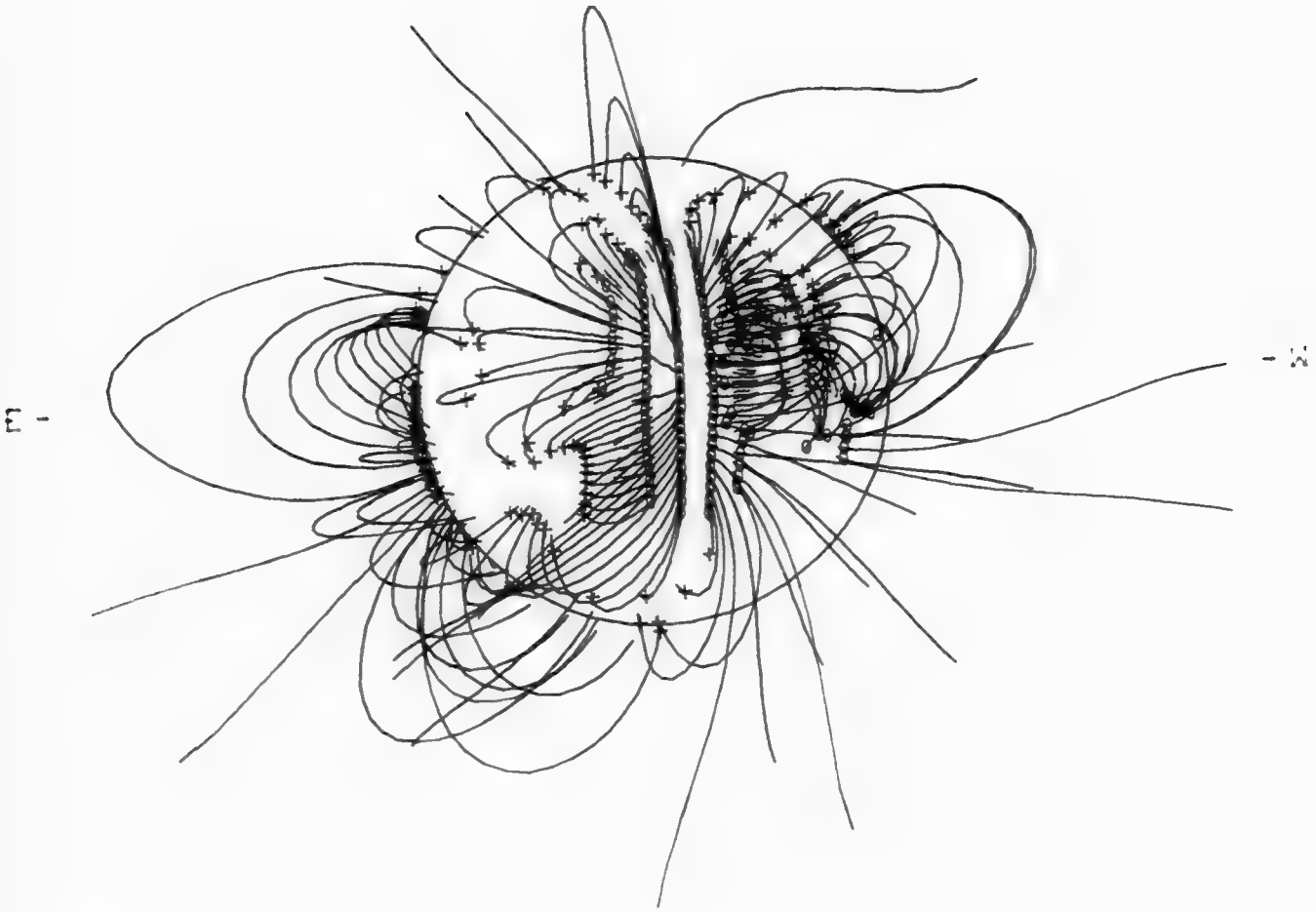
FLUX LIMIT

DATA WITHIN 15%

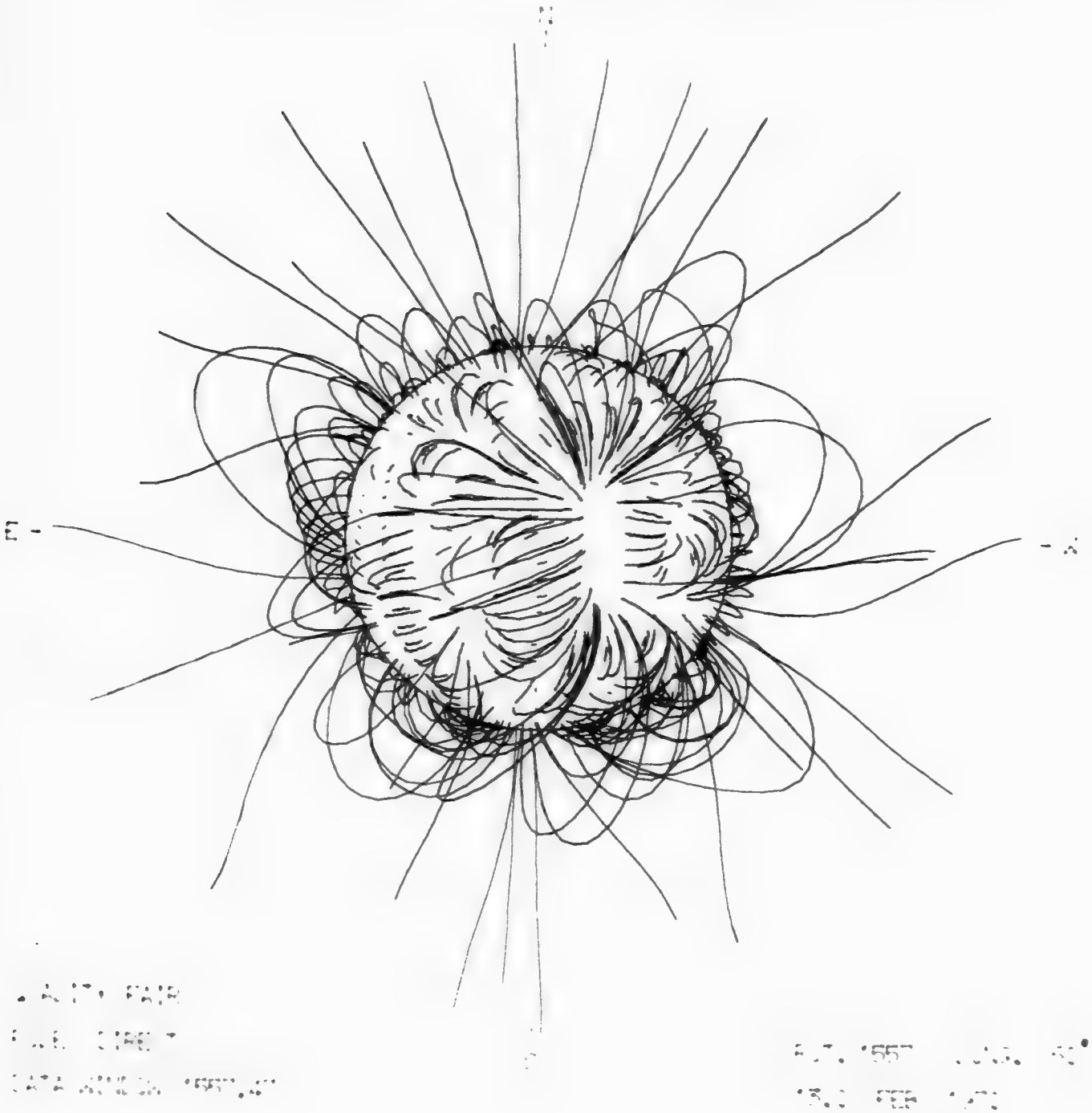
ALT. 155° AZIM. 71°

12.3 FEB 1971

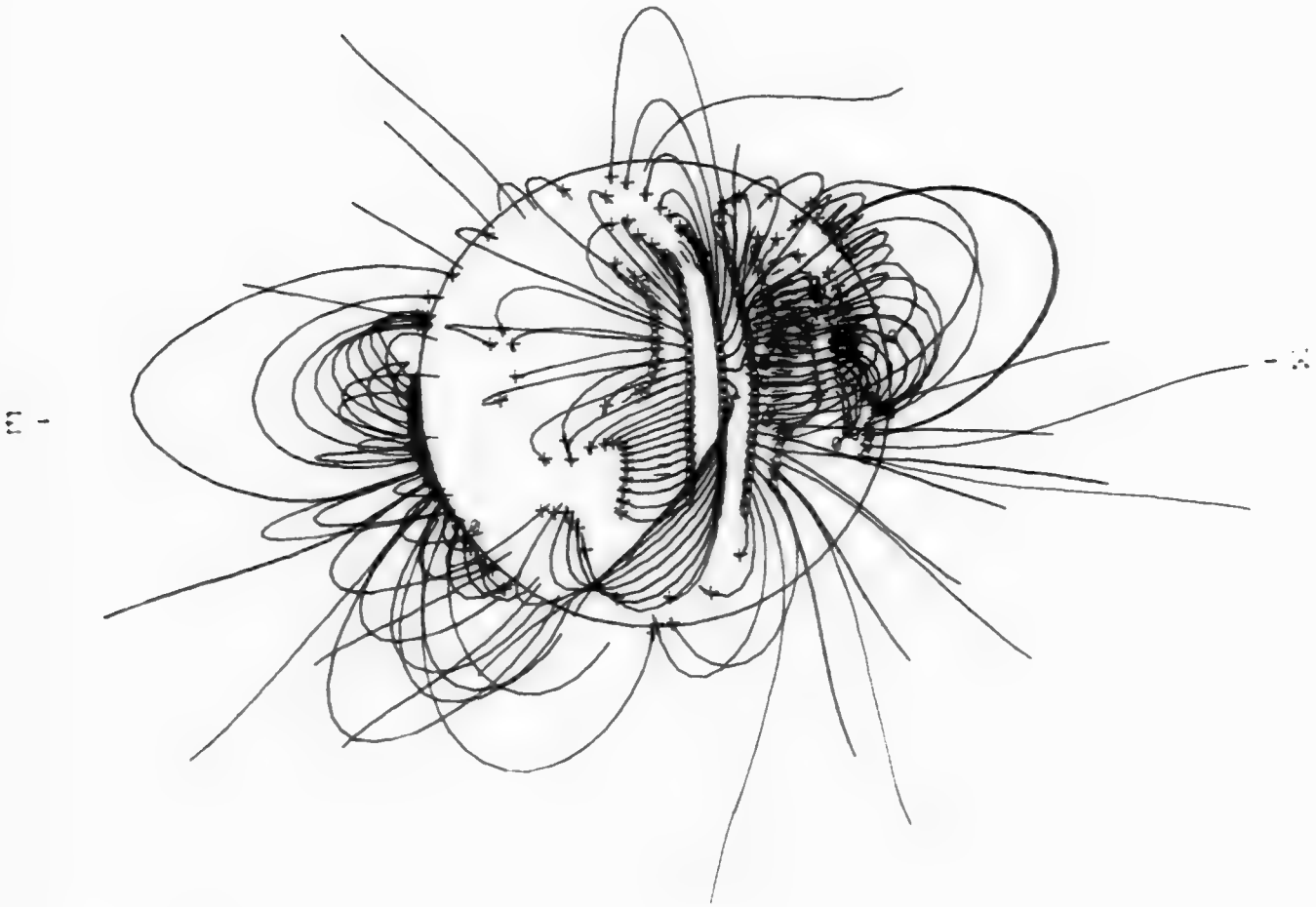
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



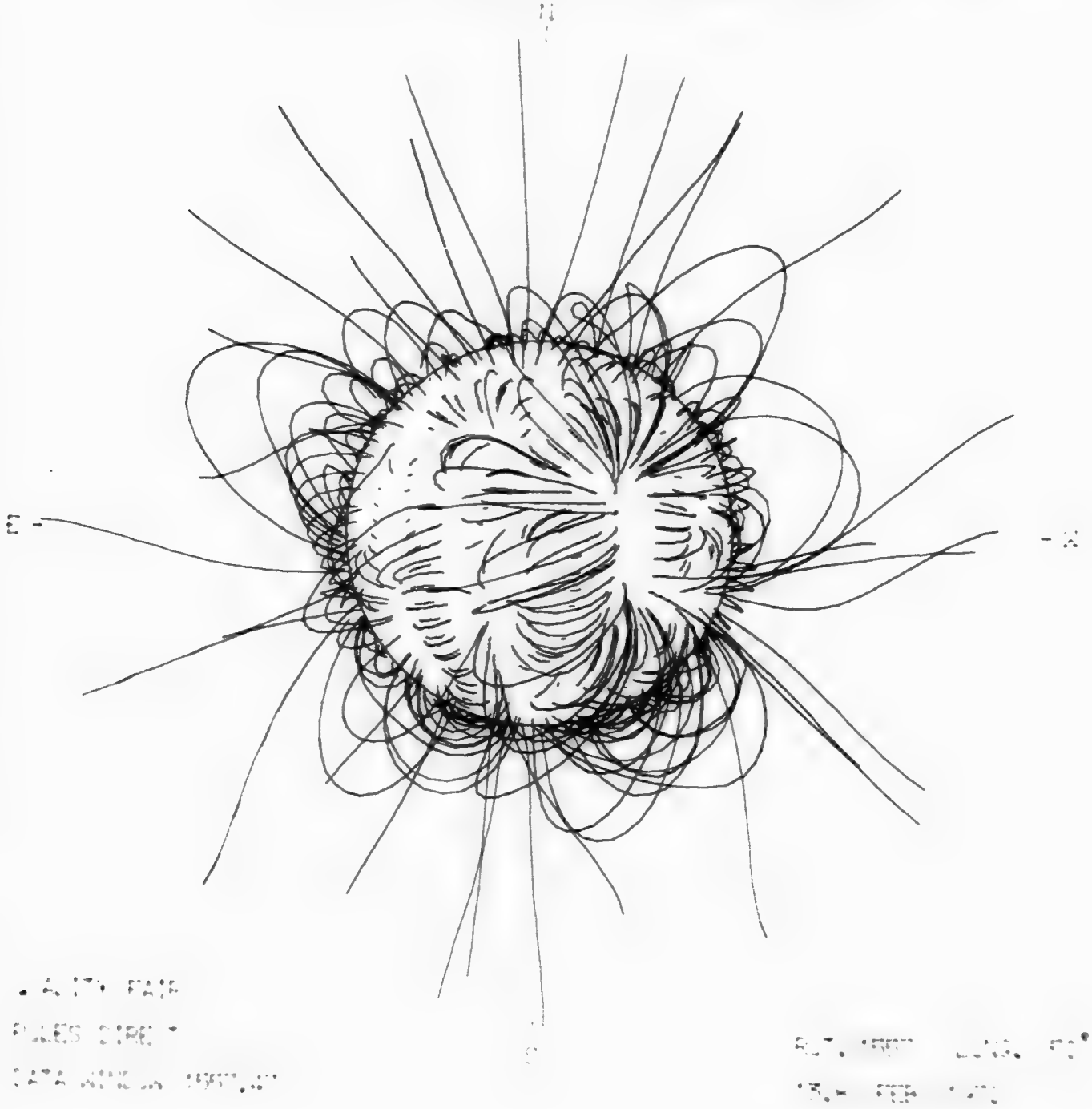
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



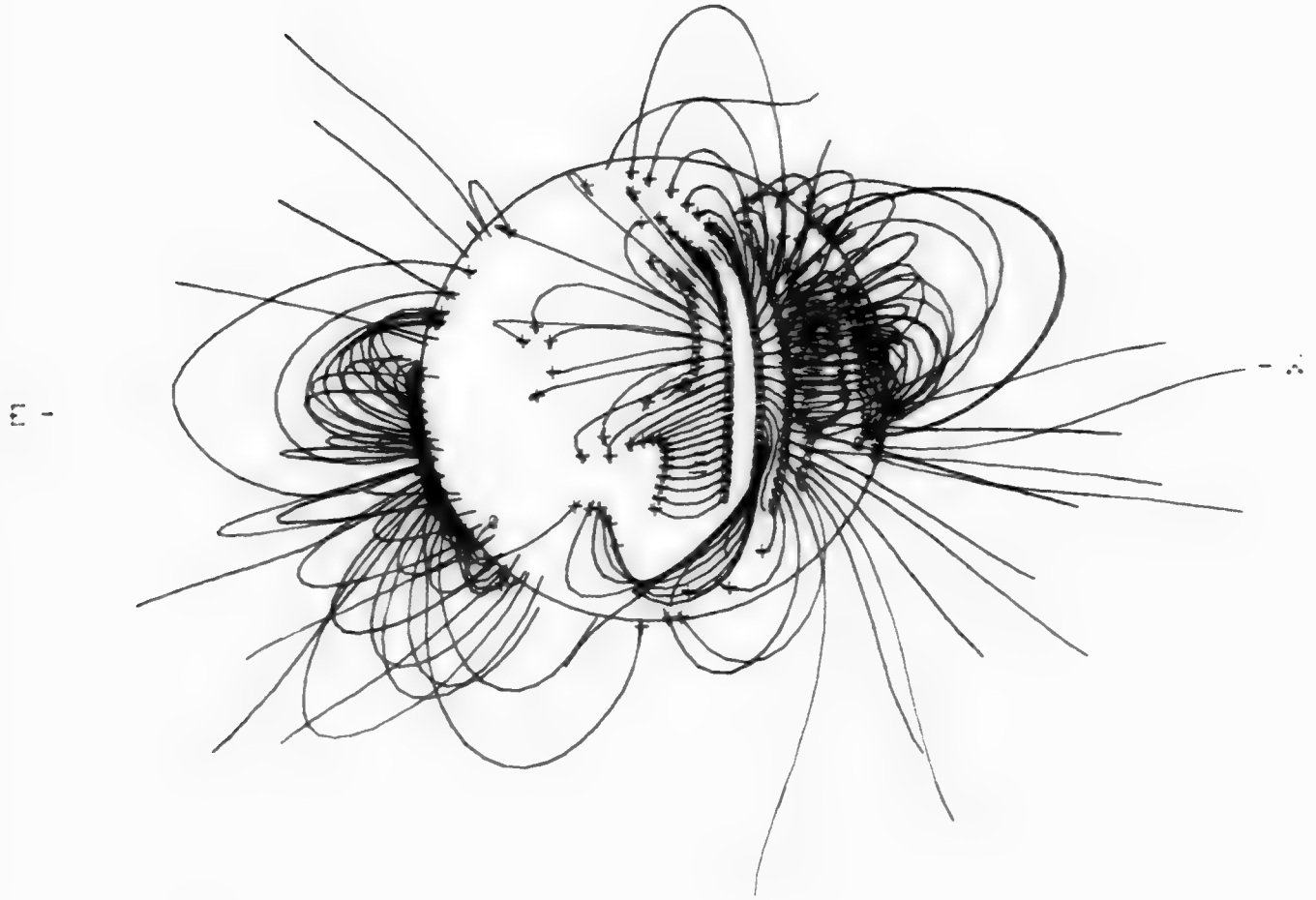
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



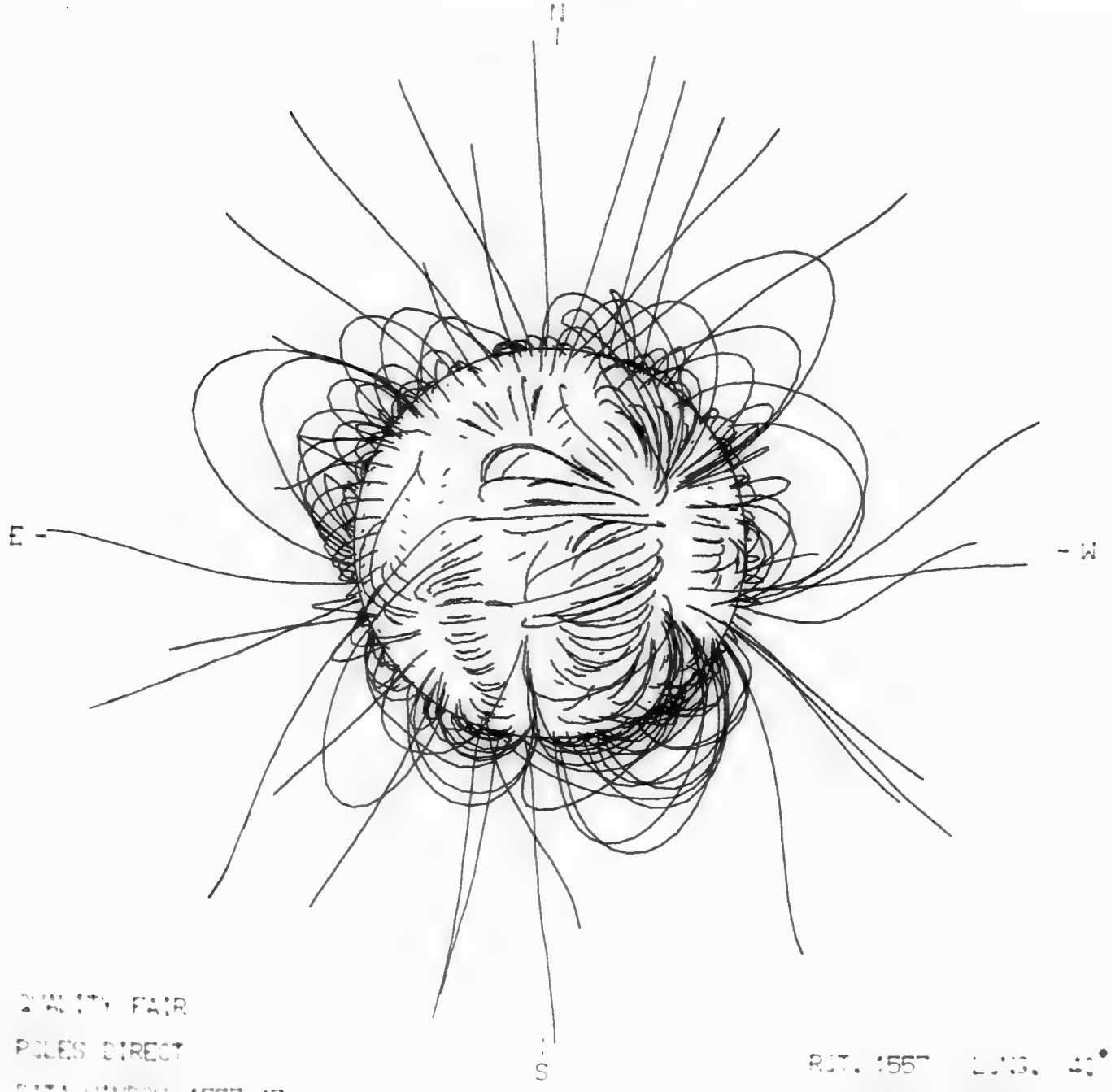
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



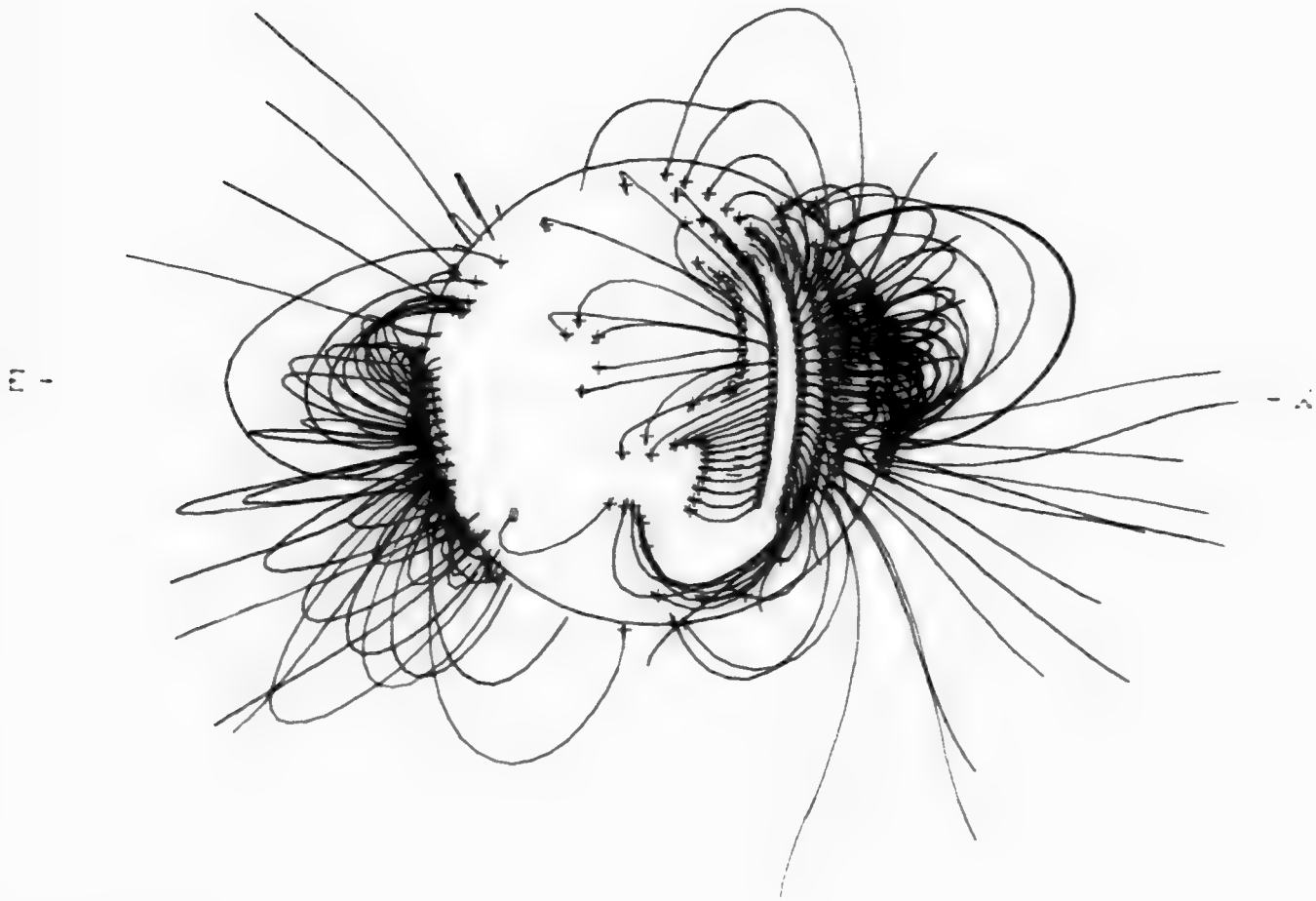
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



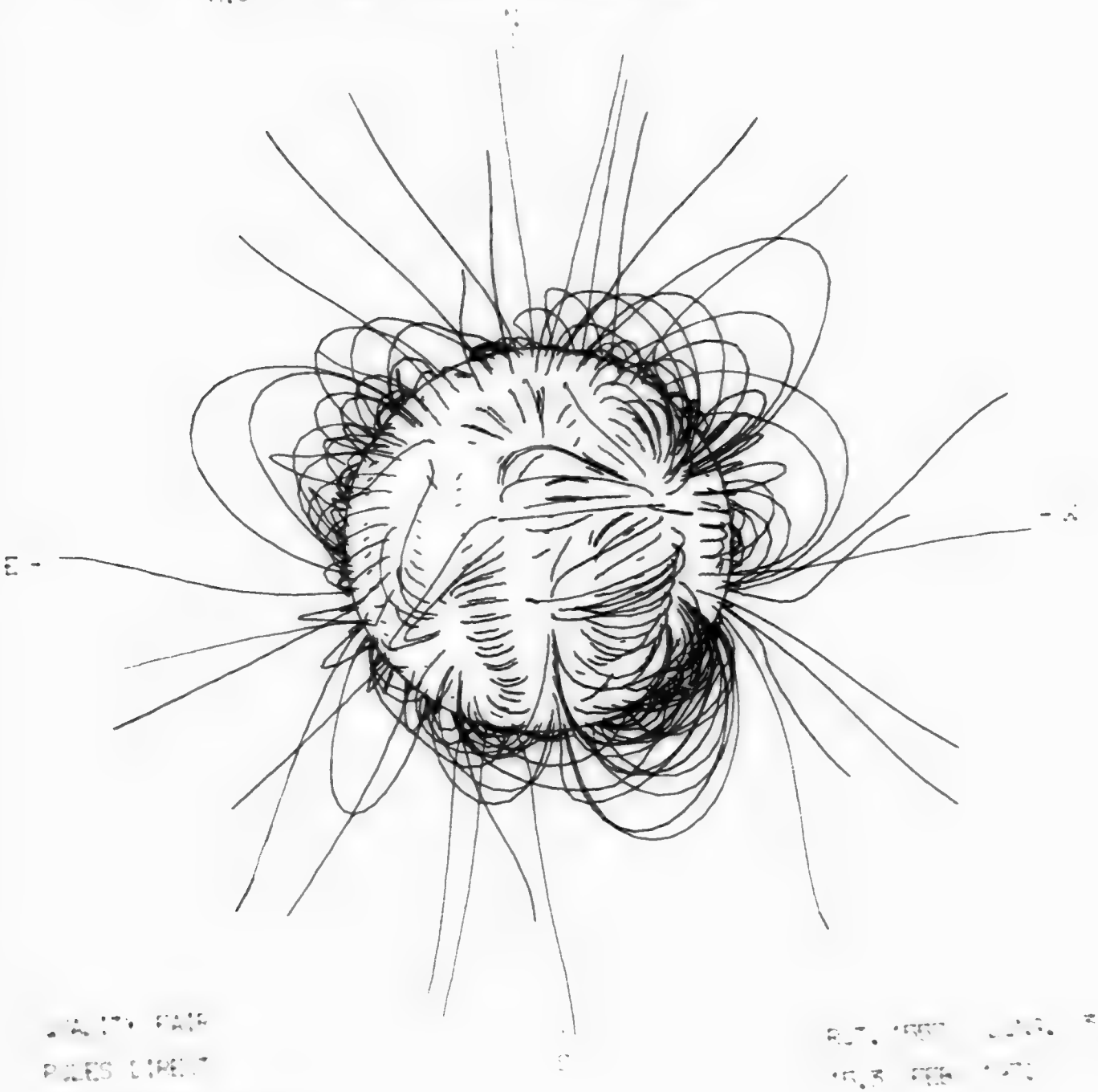
QUALITY FAIR
POLES DIRECT
DATA WINDOW 1557,47

ROT. 1557 LONG. 41°
14.5 FEB 1971

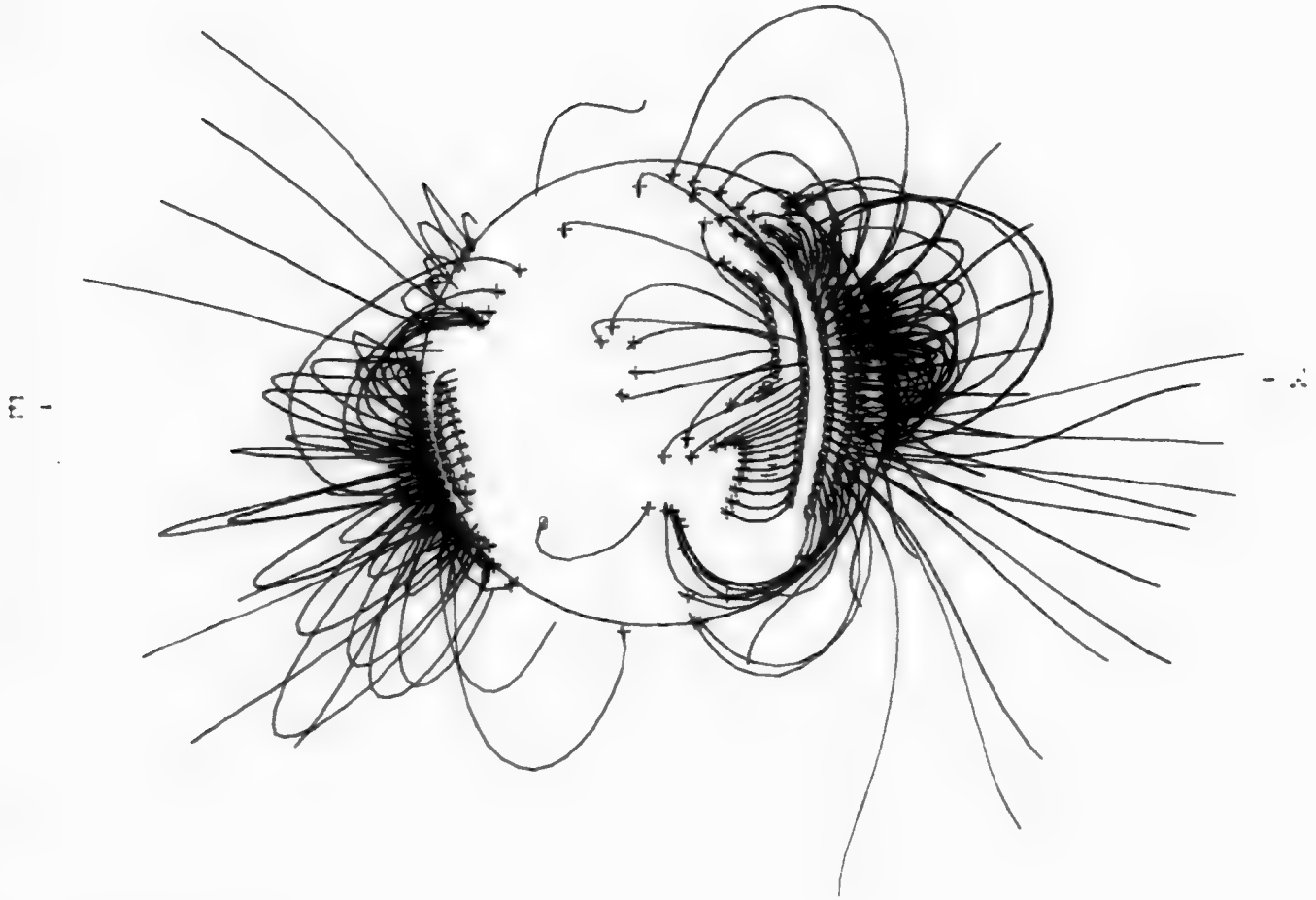
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



[illegible] FAIR

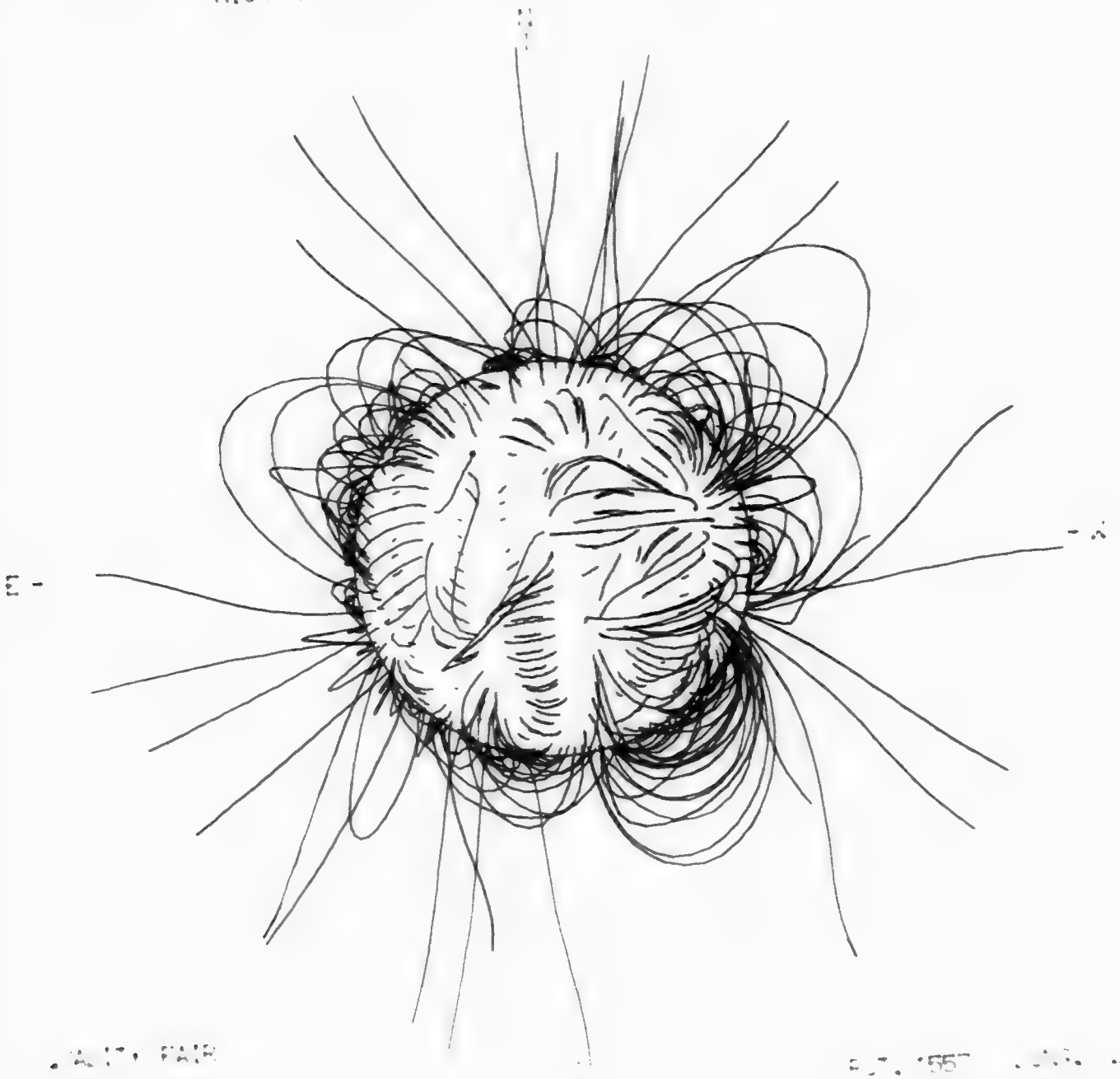
RULES DIRECT

DATA AVAILABLE [illegible]

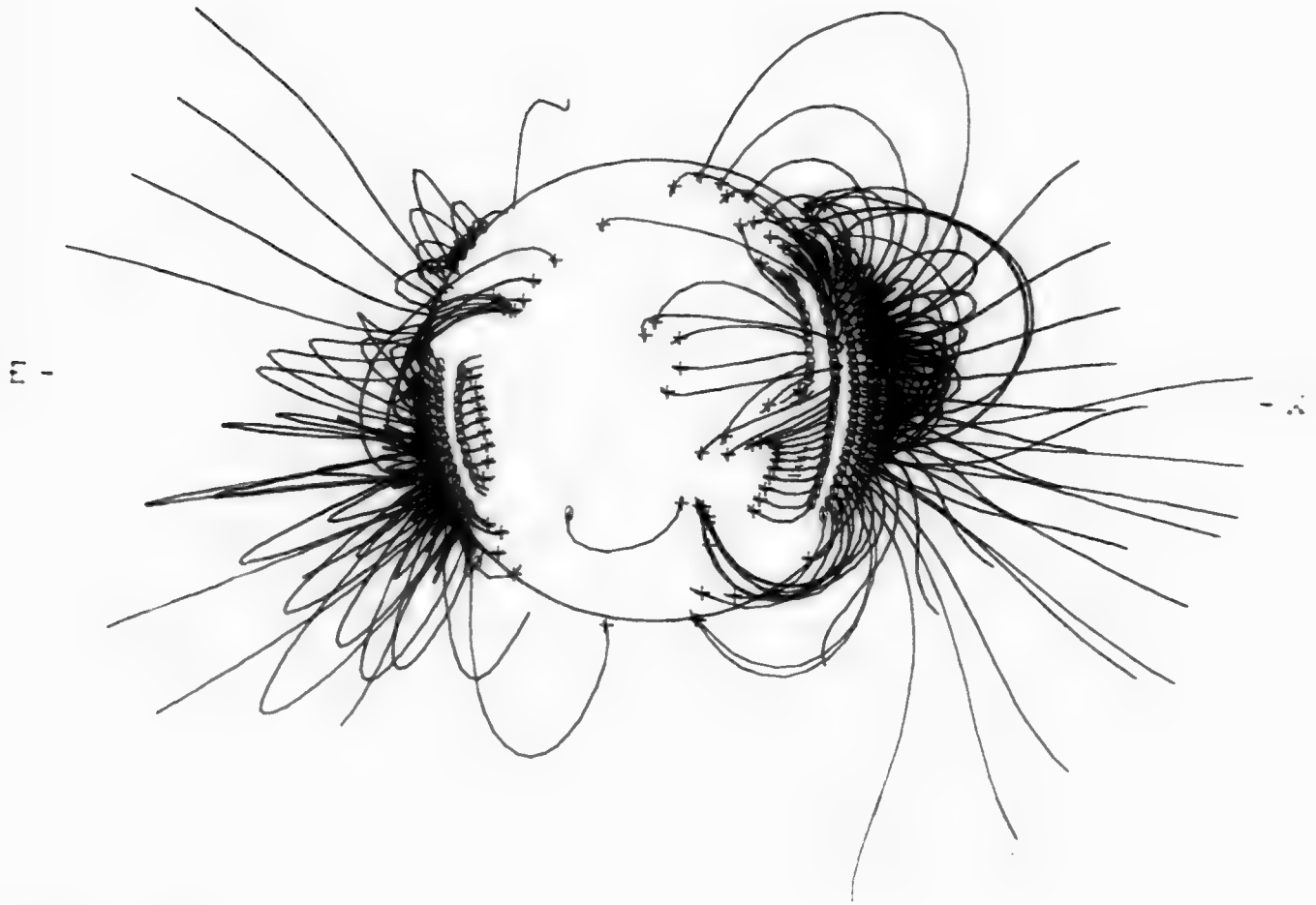
[illegible] 155° [illegible]°

15.3 FEB [illegible]

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



QUALITY FAIR

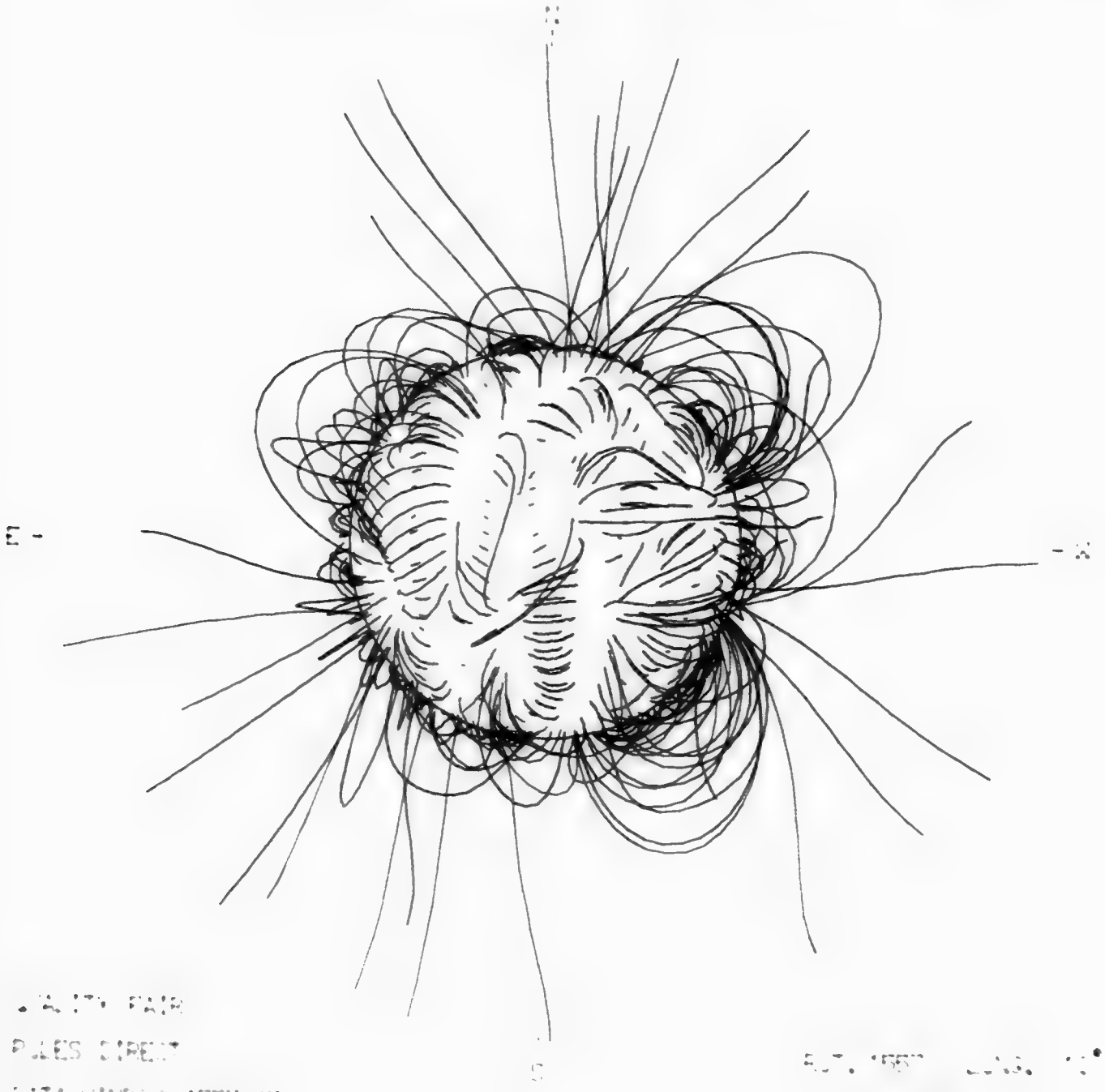
POLES DIRECT

DATA [illegible]

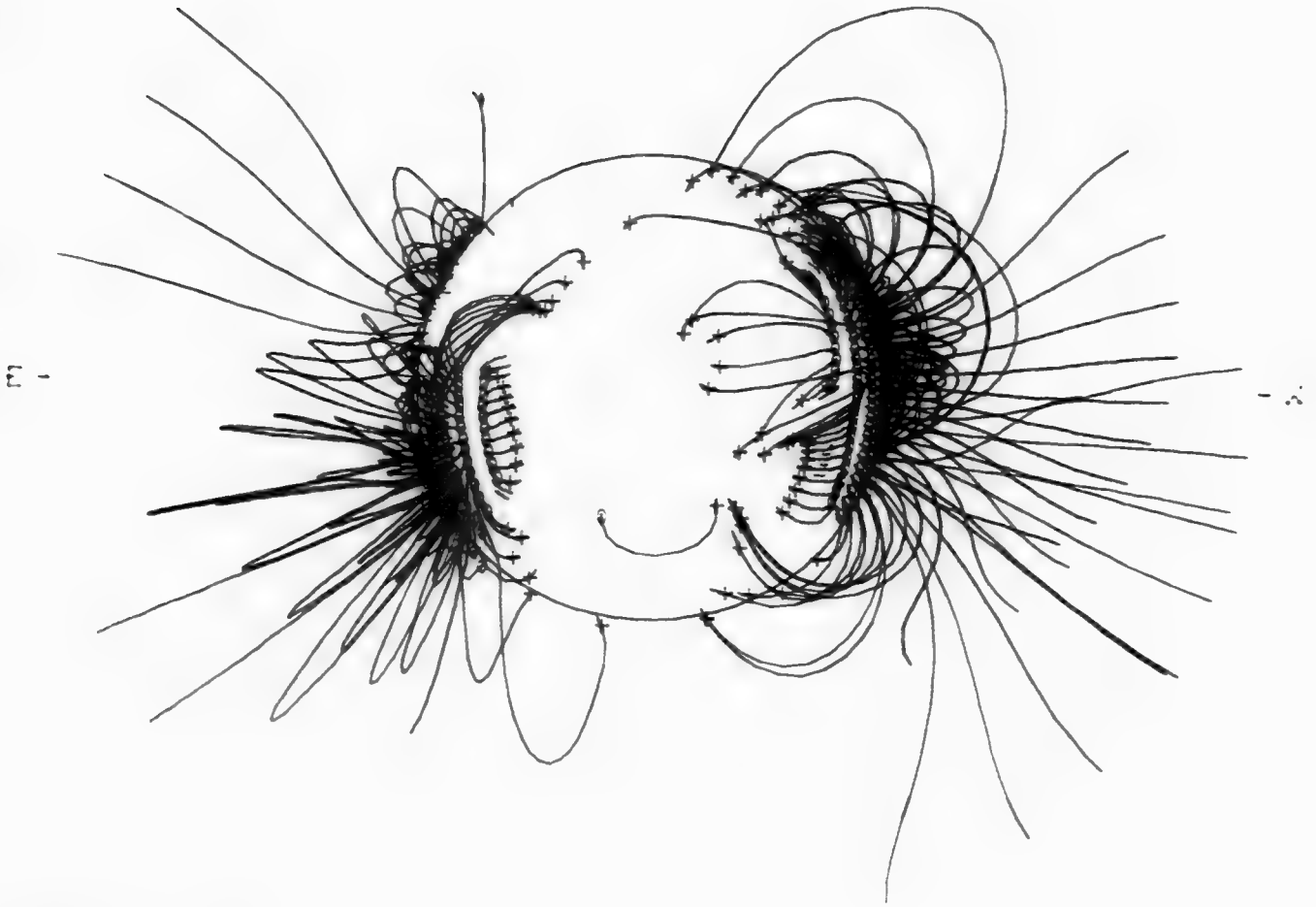
R.T. 155[illegible]

16.1 FEB 19[illegible]

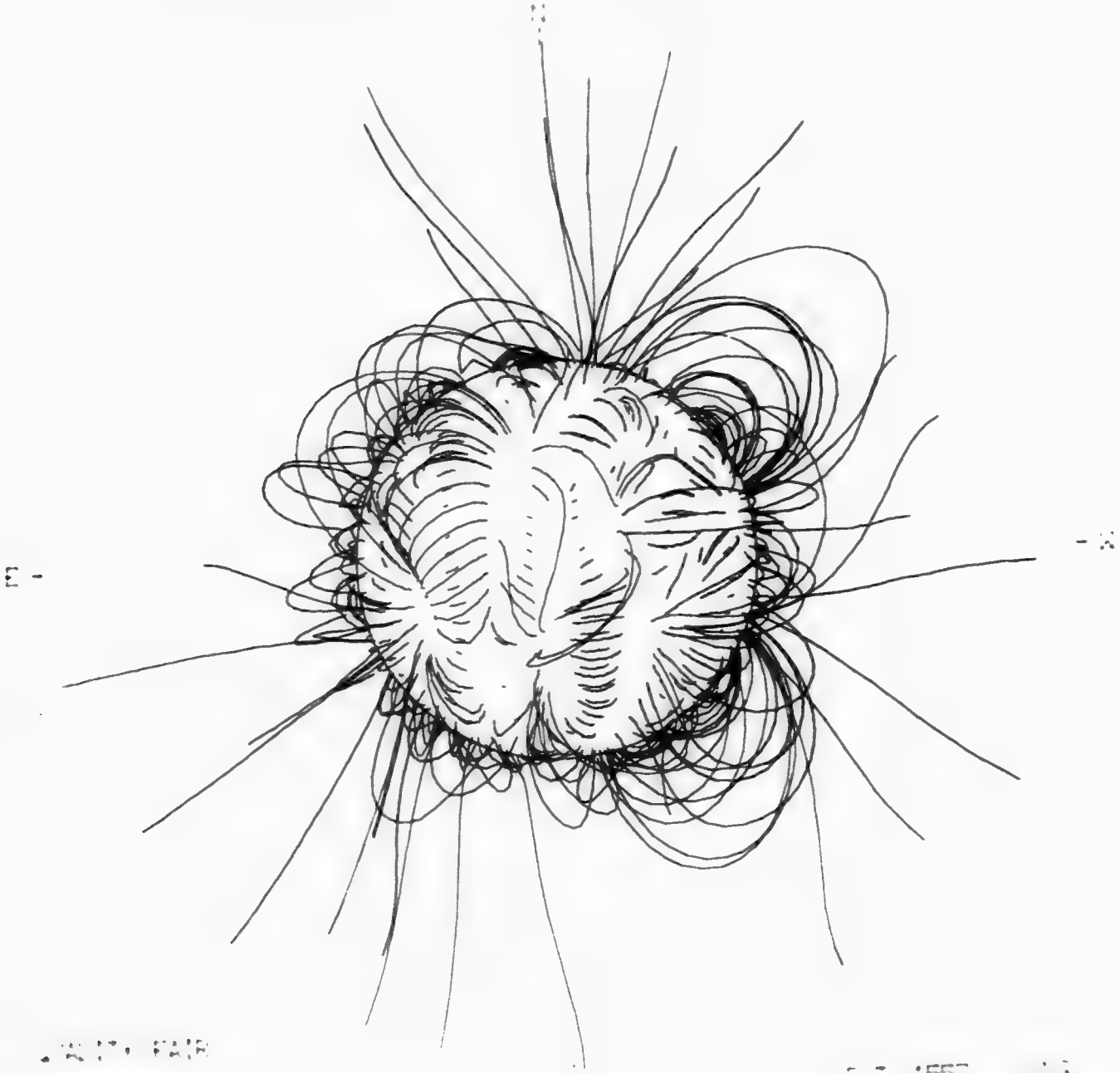
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



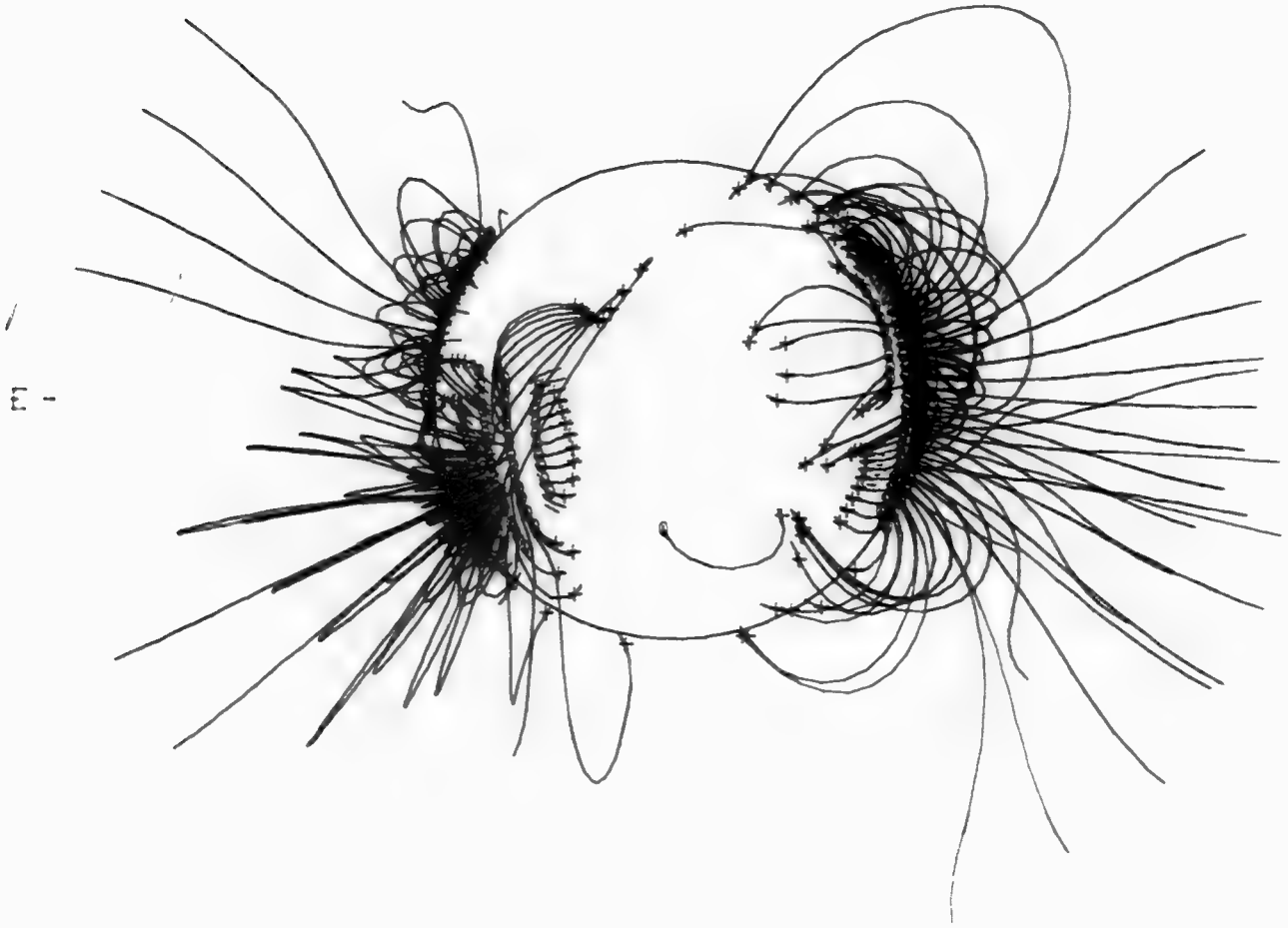
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



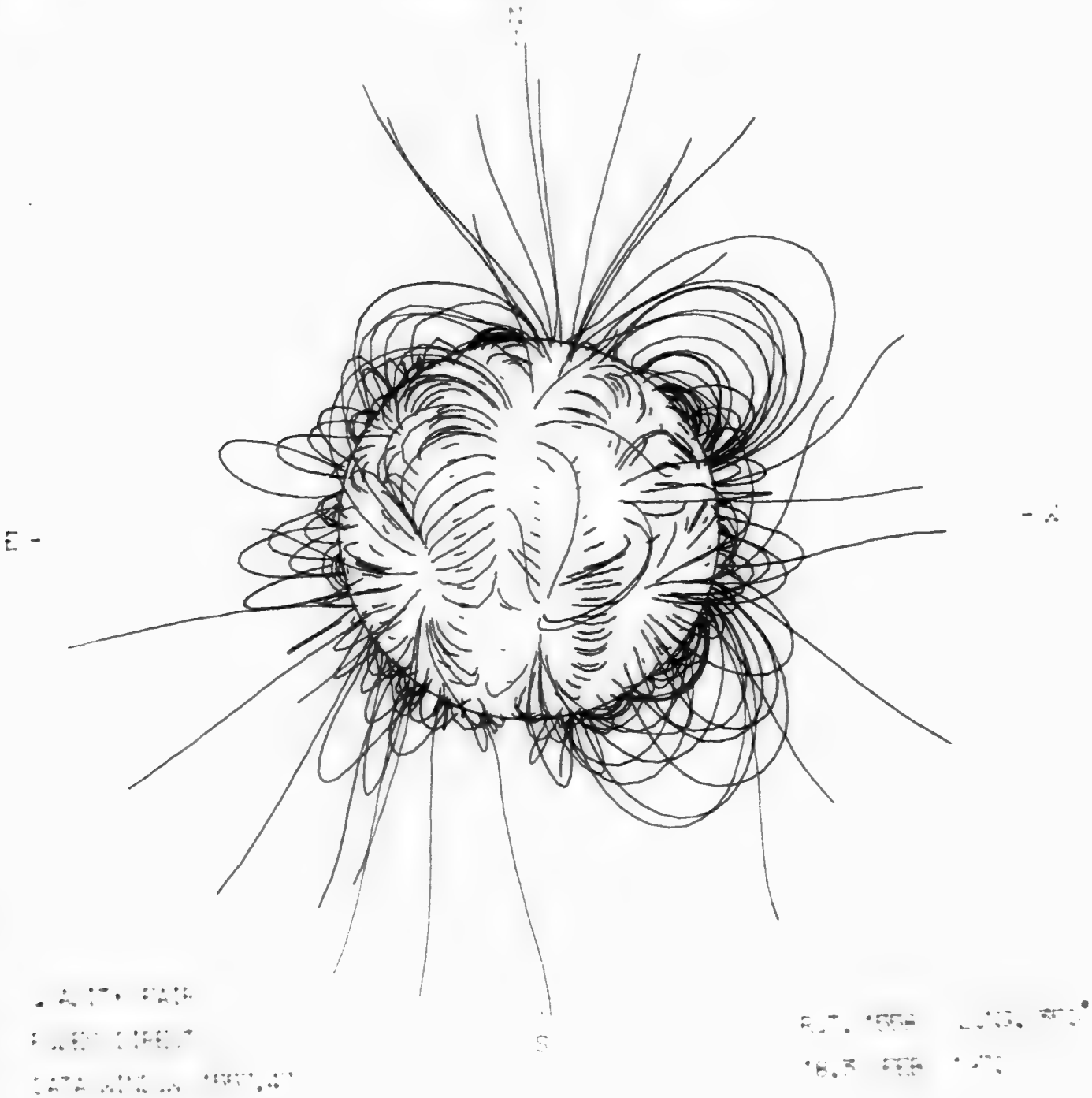
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



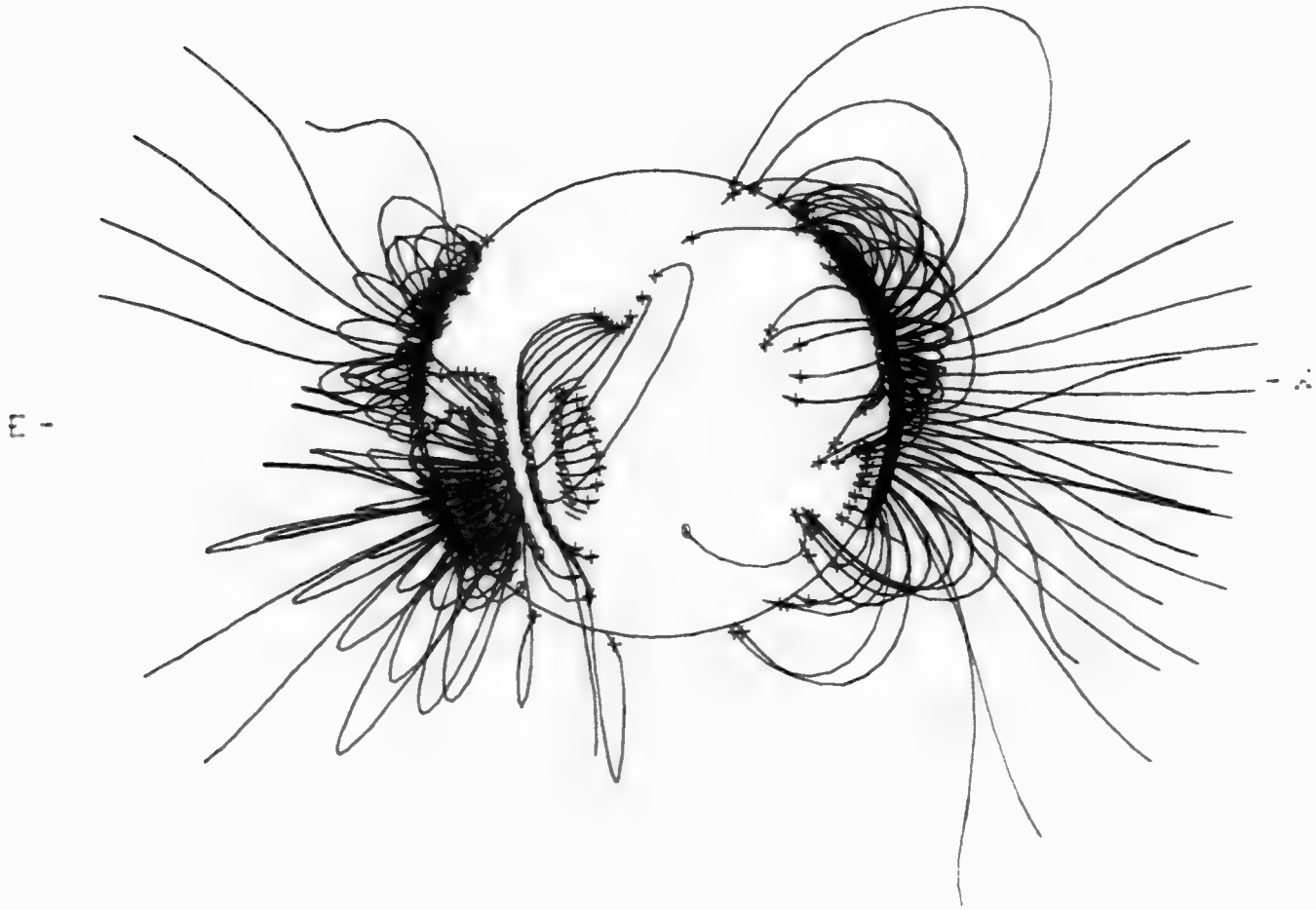
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



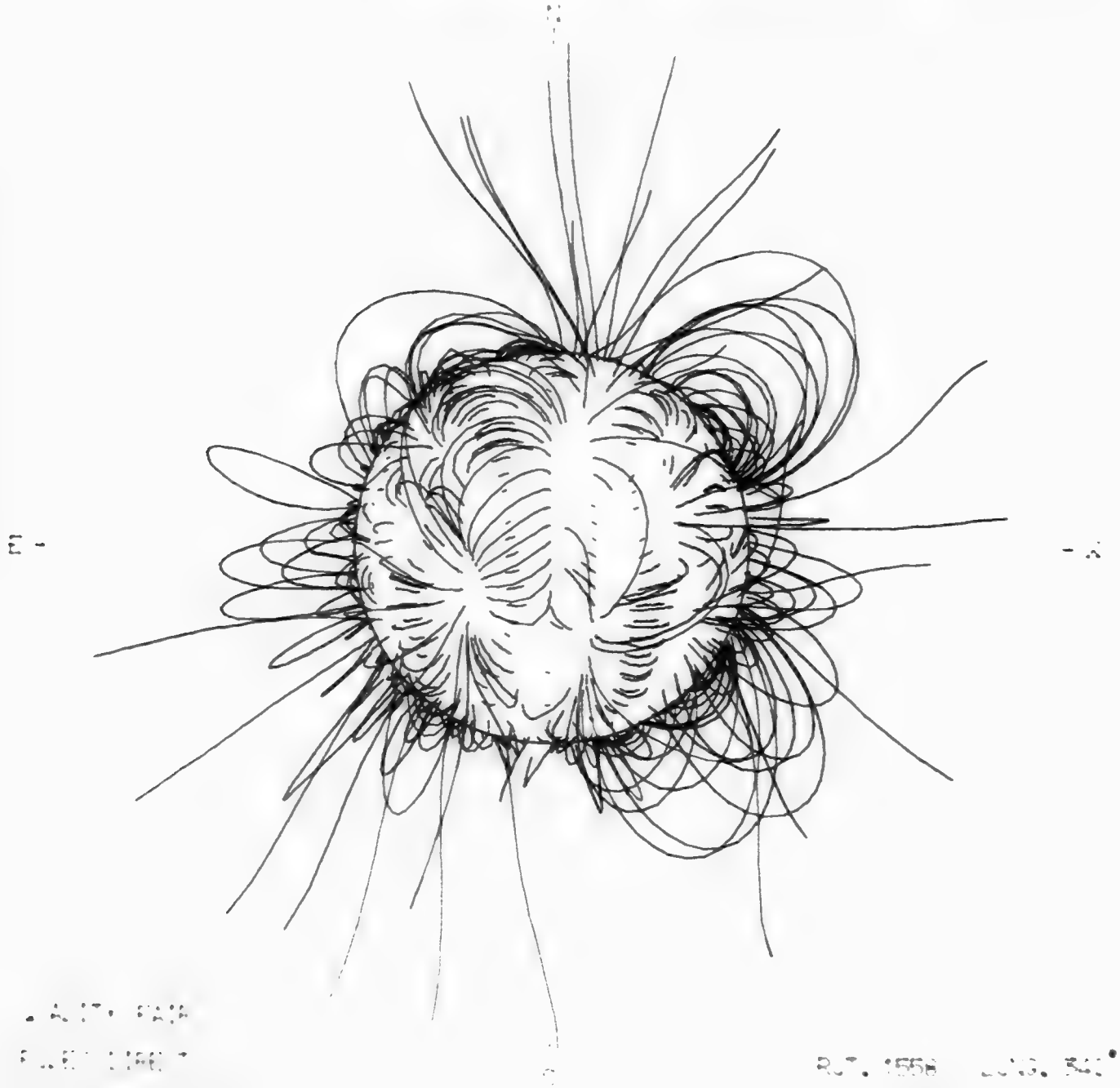
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



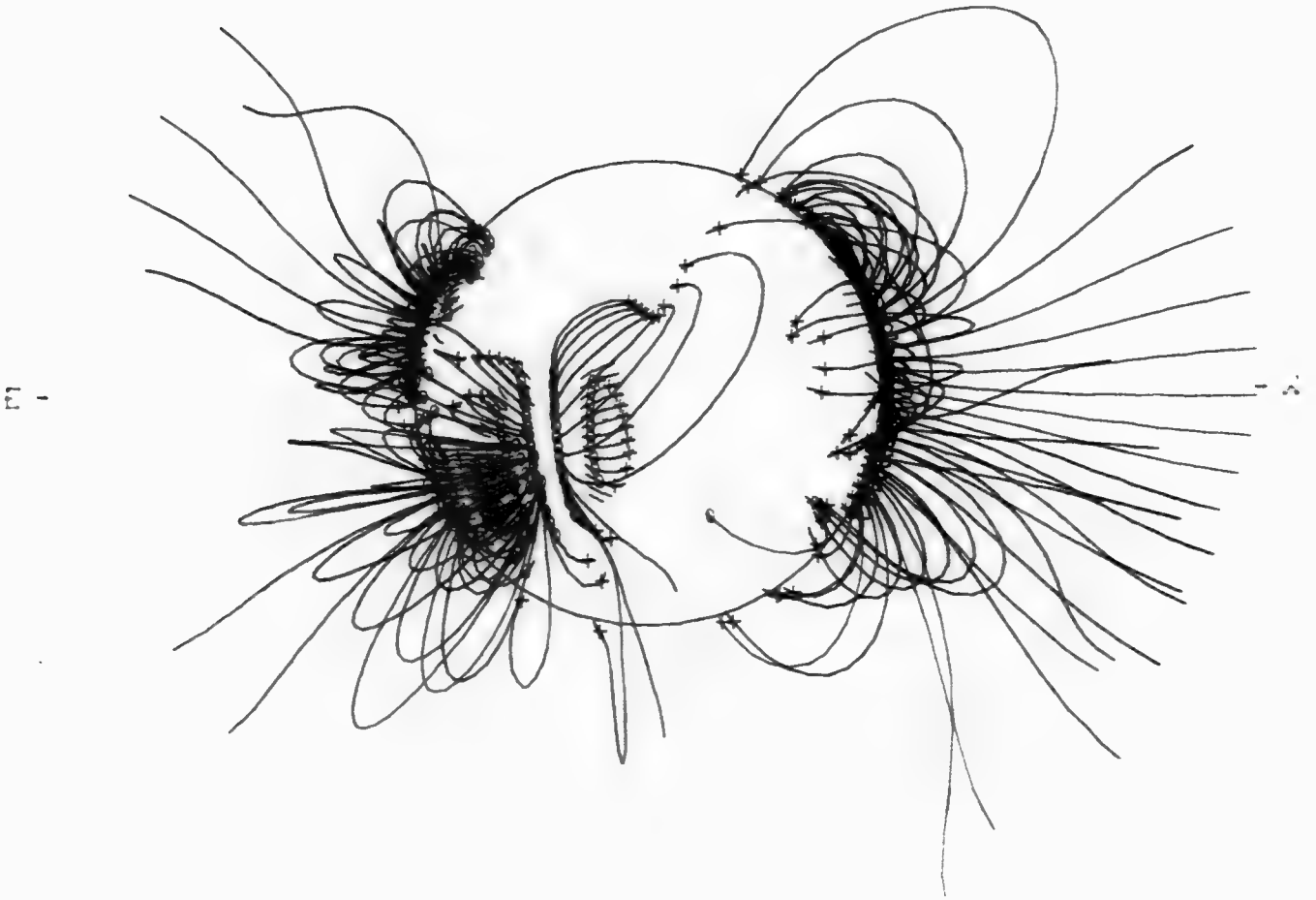
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



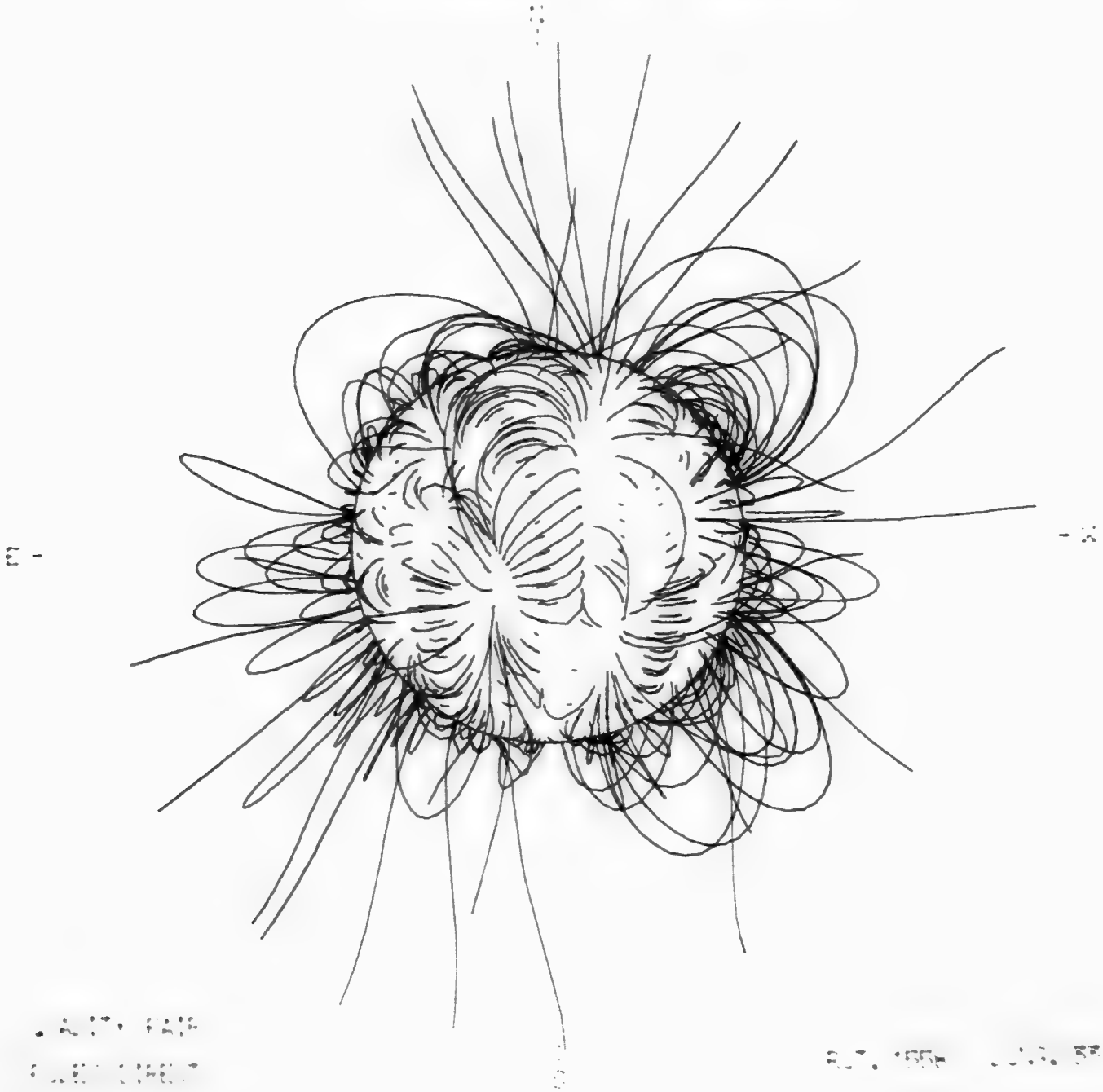
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



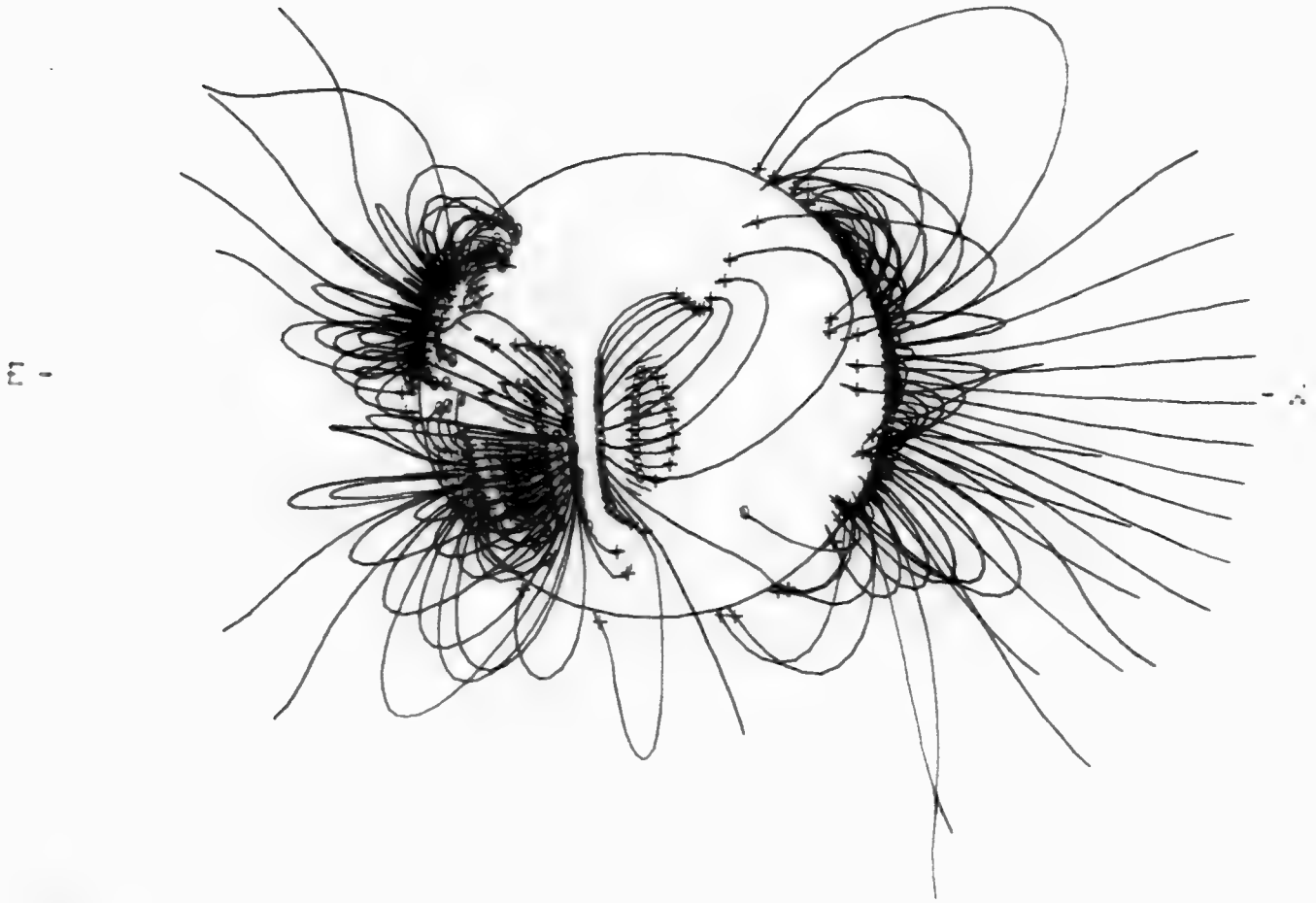
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



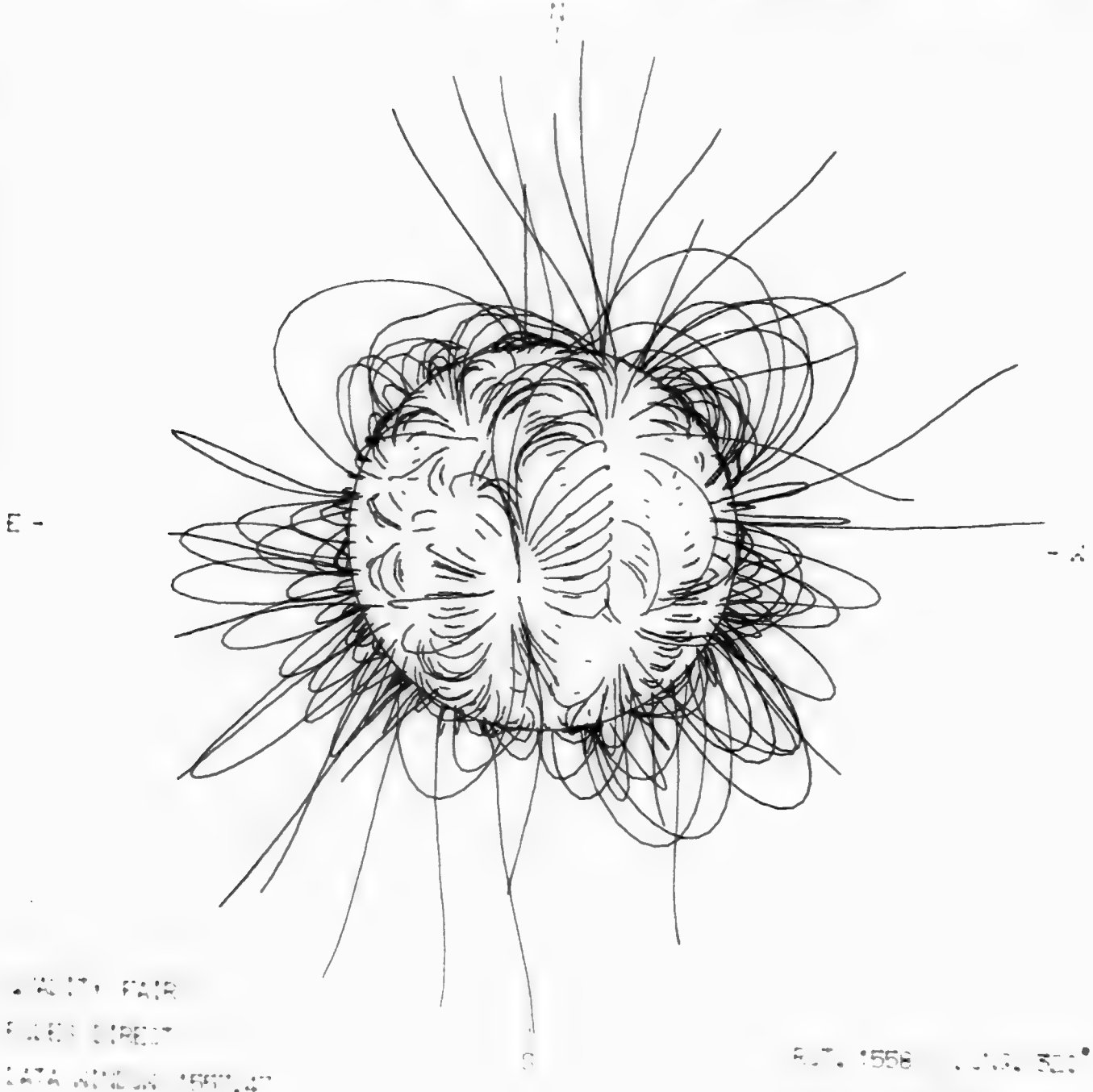
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



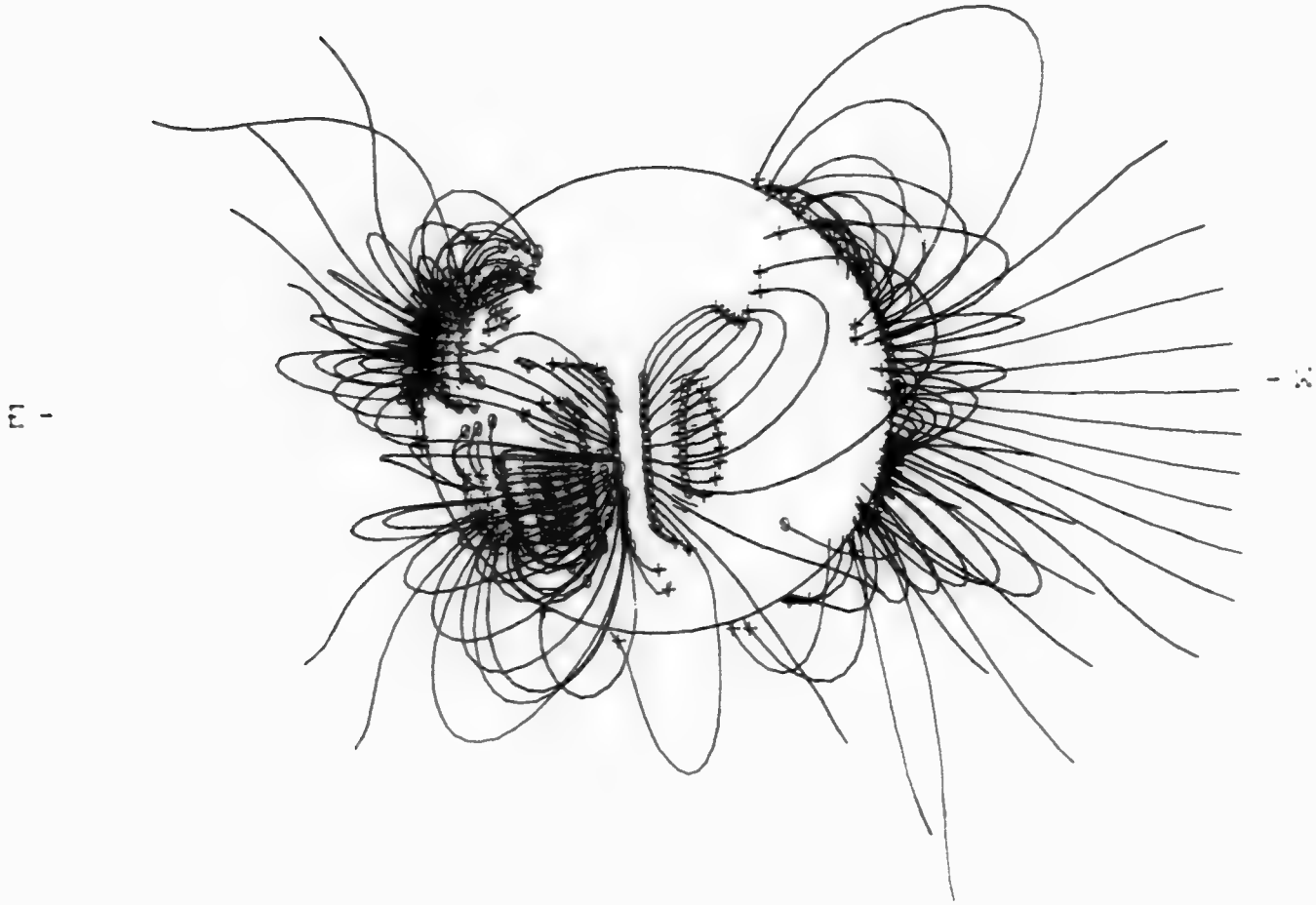
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



[illegible] FAIR

FILES DIRECT

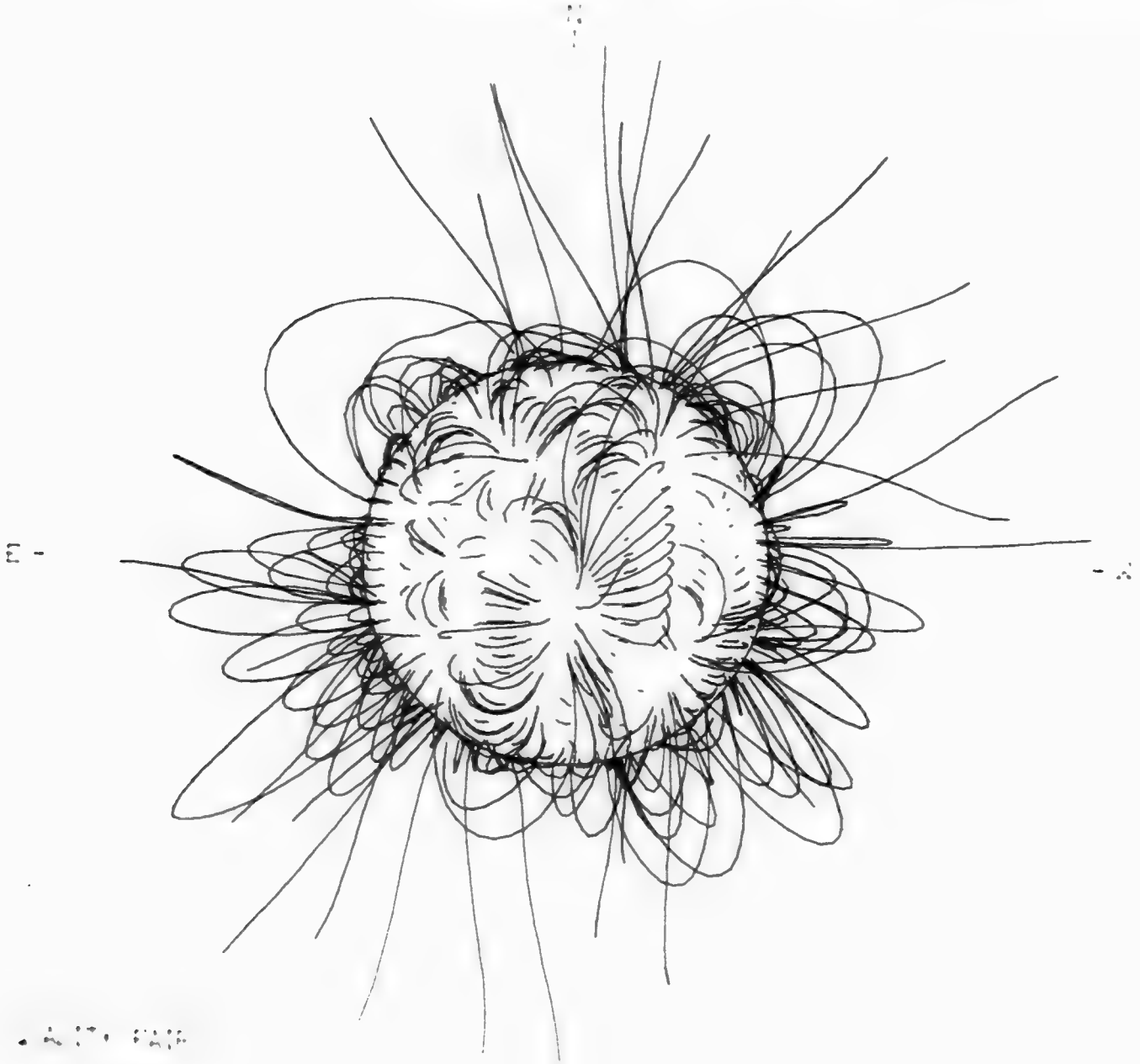
DATA AVAILABLE [illegible]

[illegible]

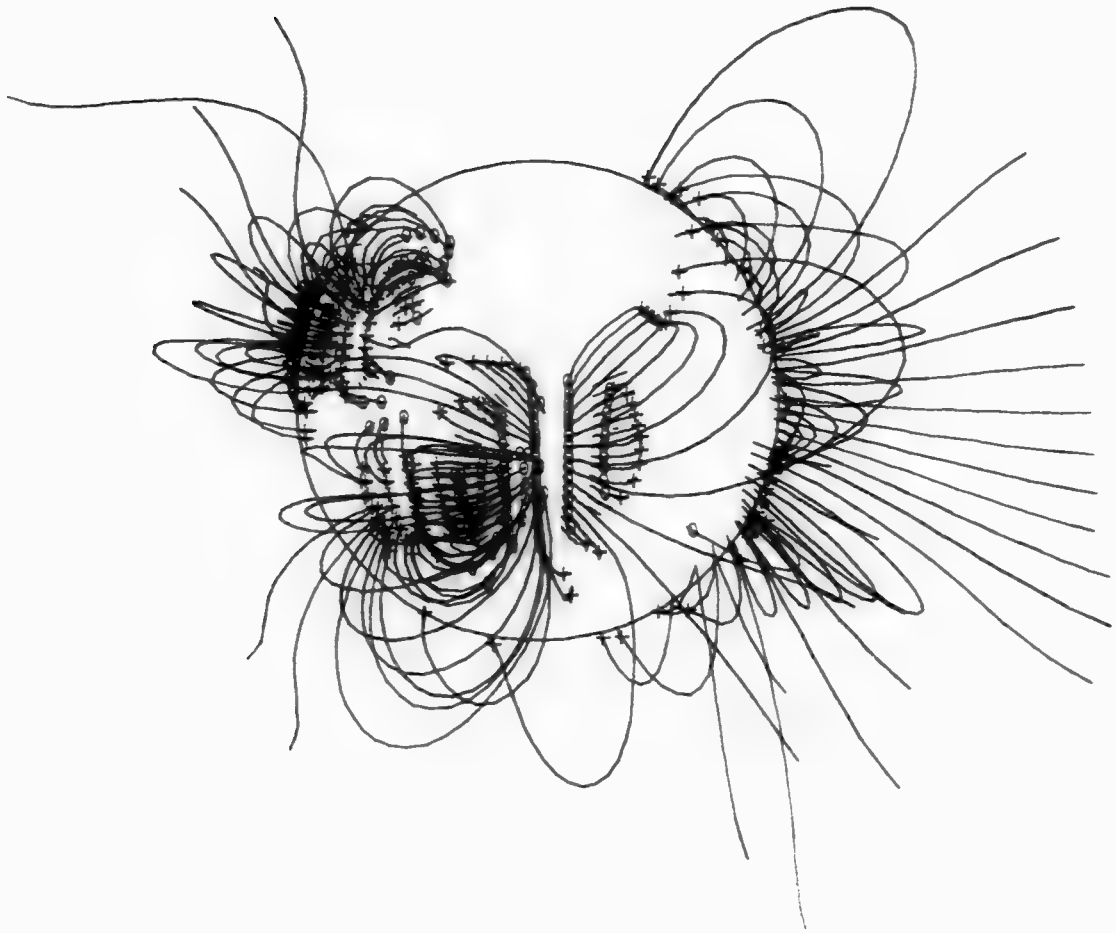
ROT. 1558 LONG. 301°

[illegible] FEB [illegible]

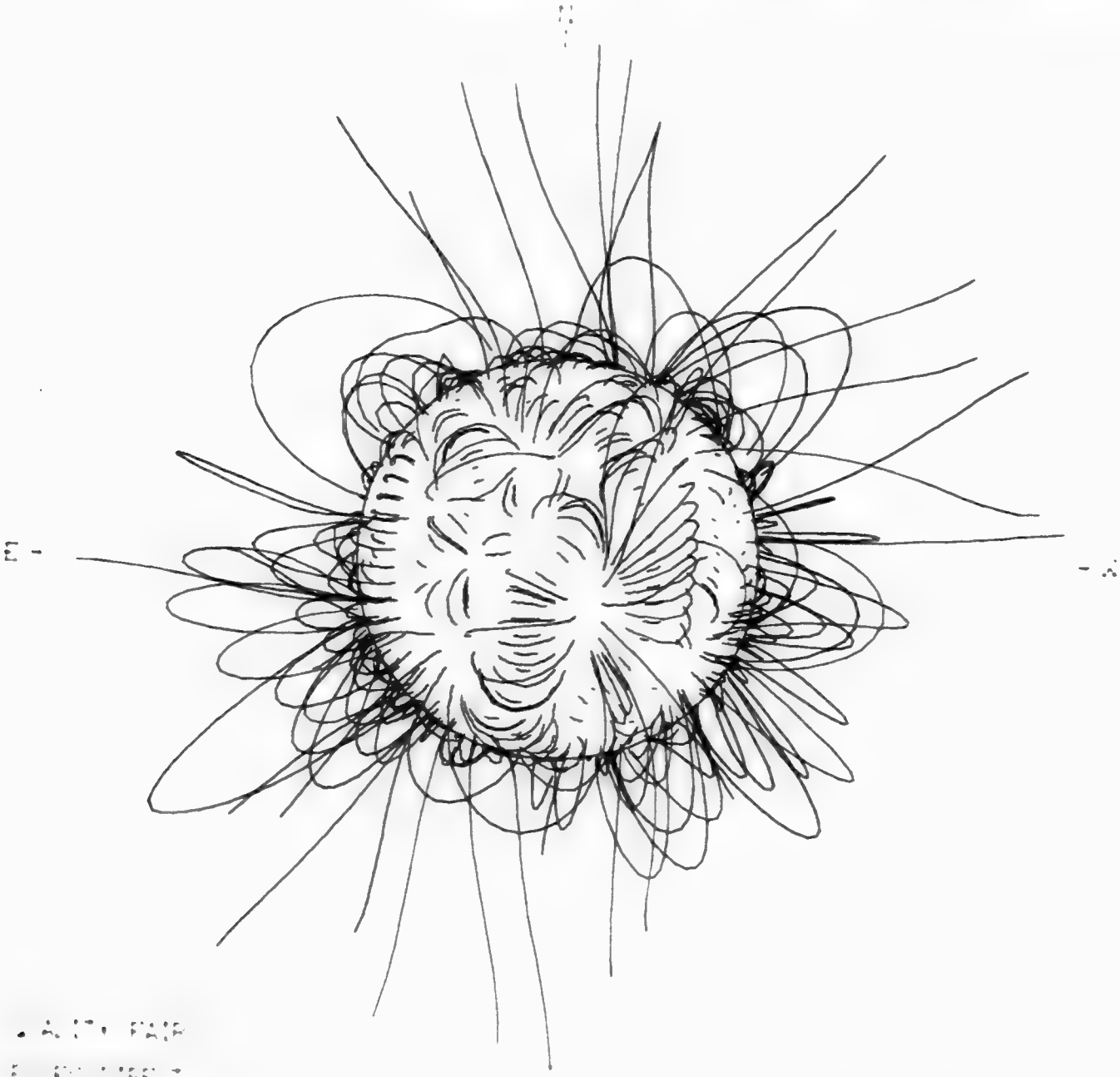
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



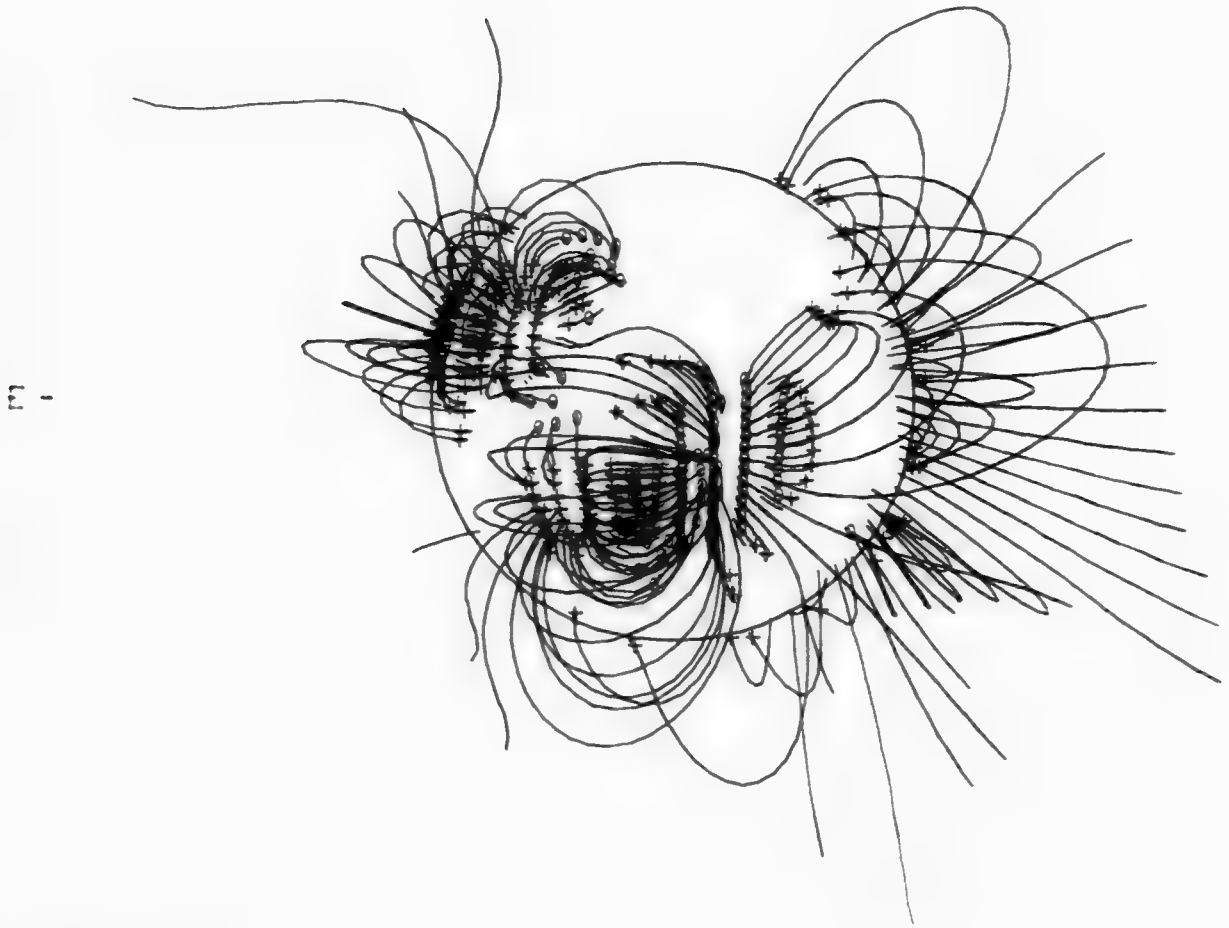
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



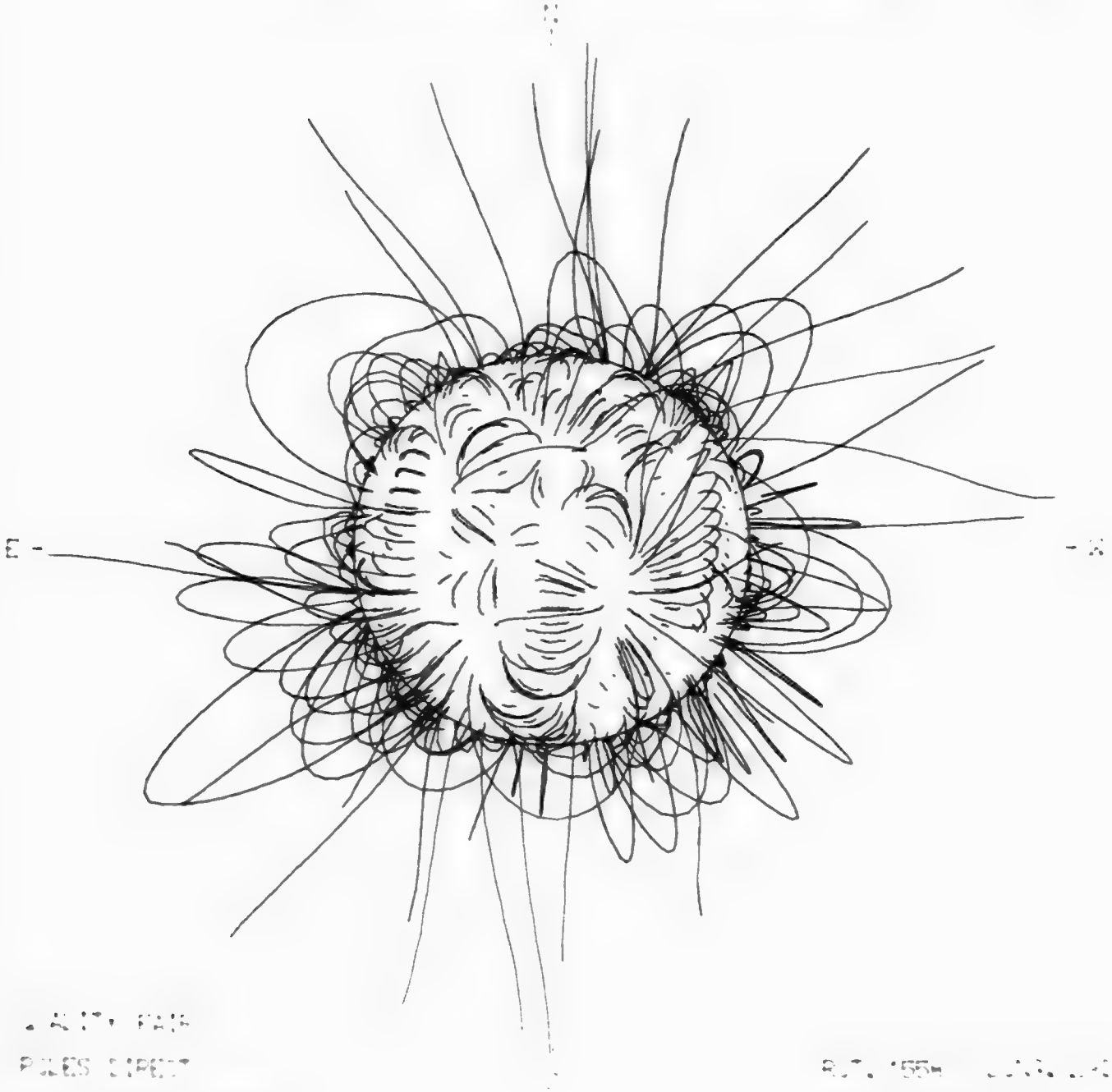
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



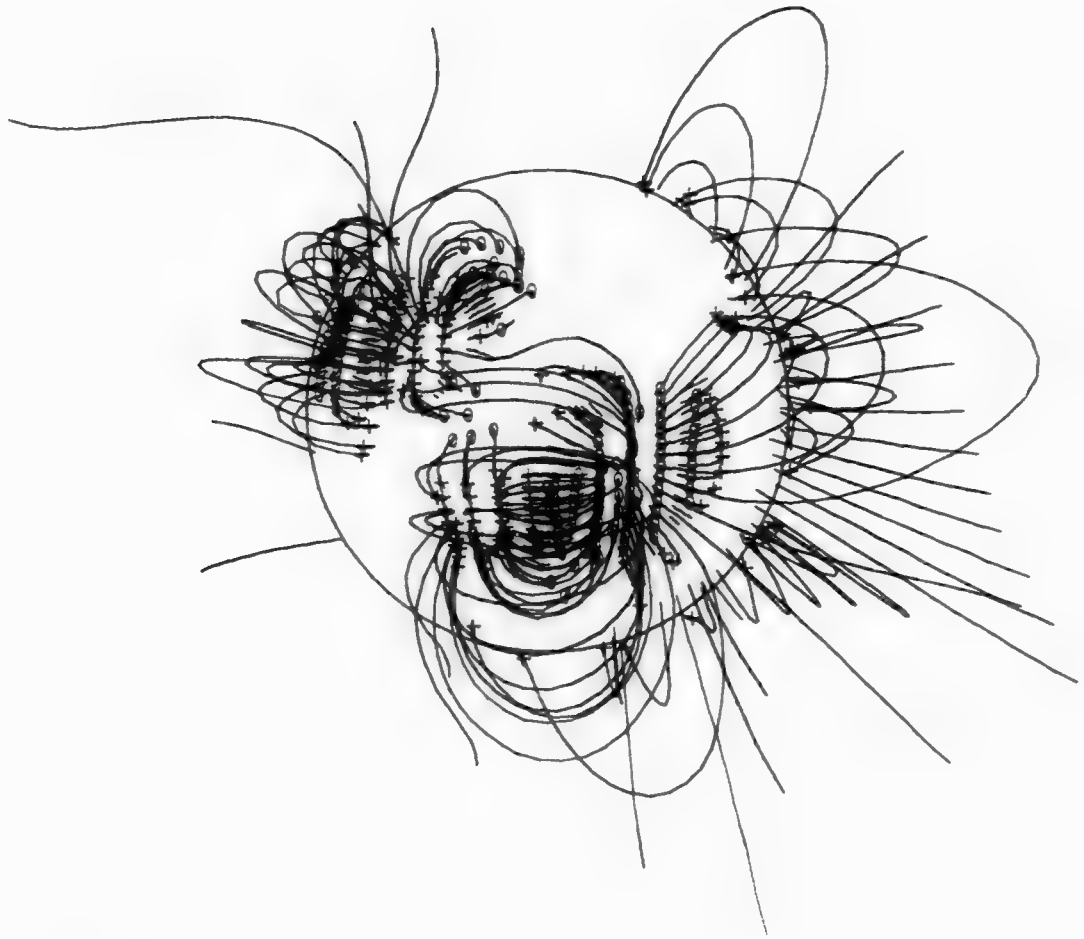
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



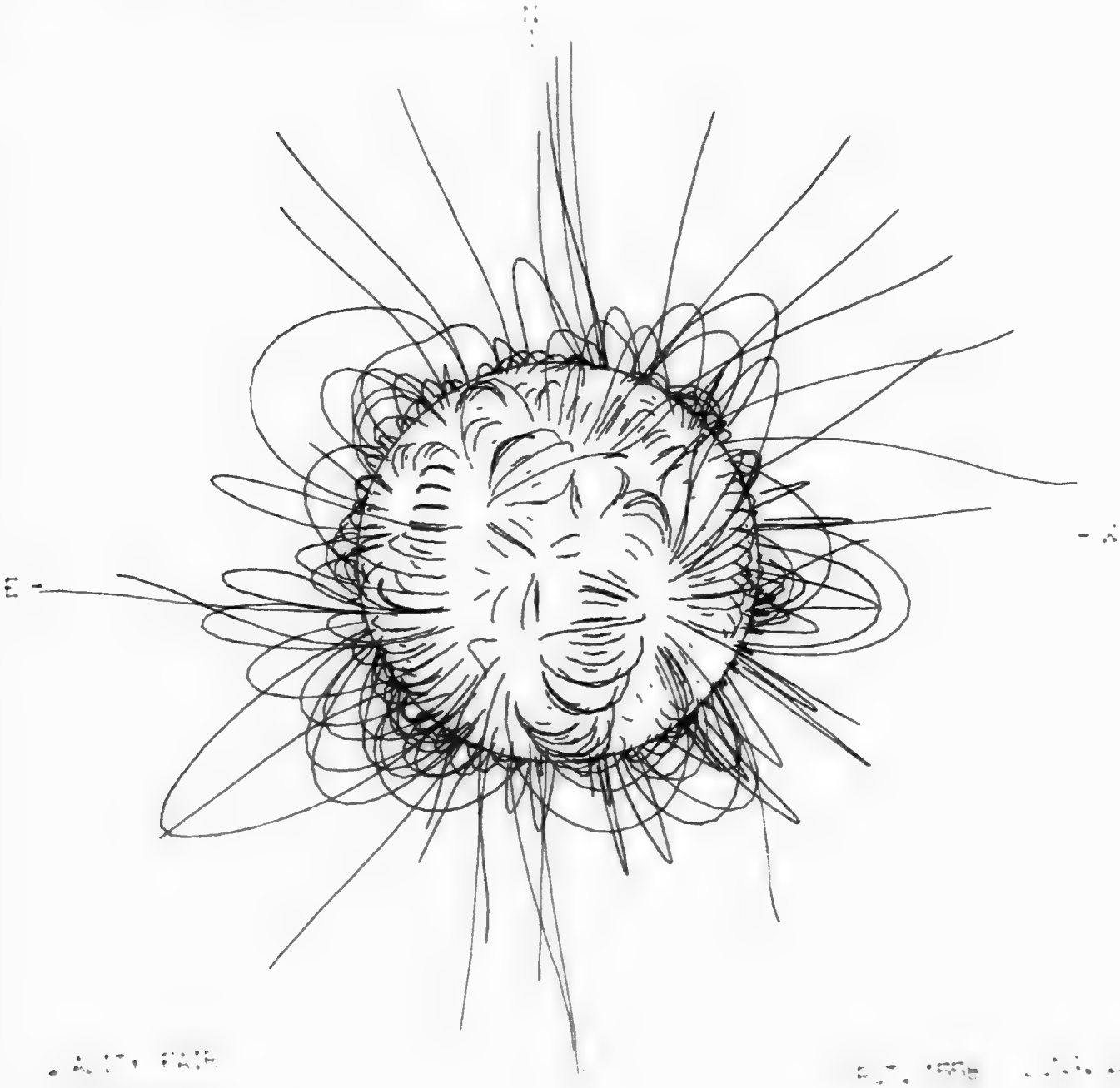
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



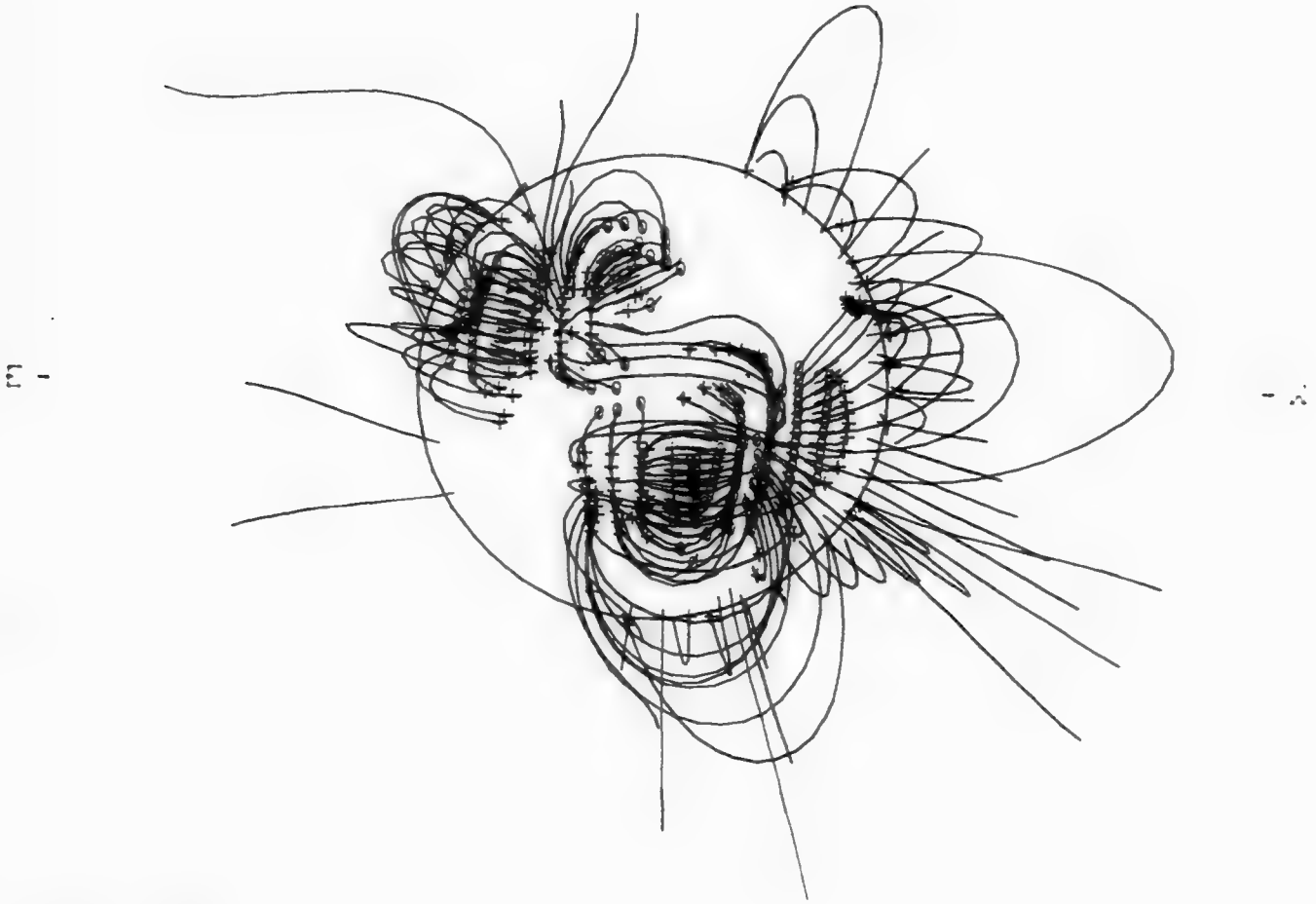
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



A ALITY FAIR

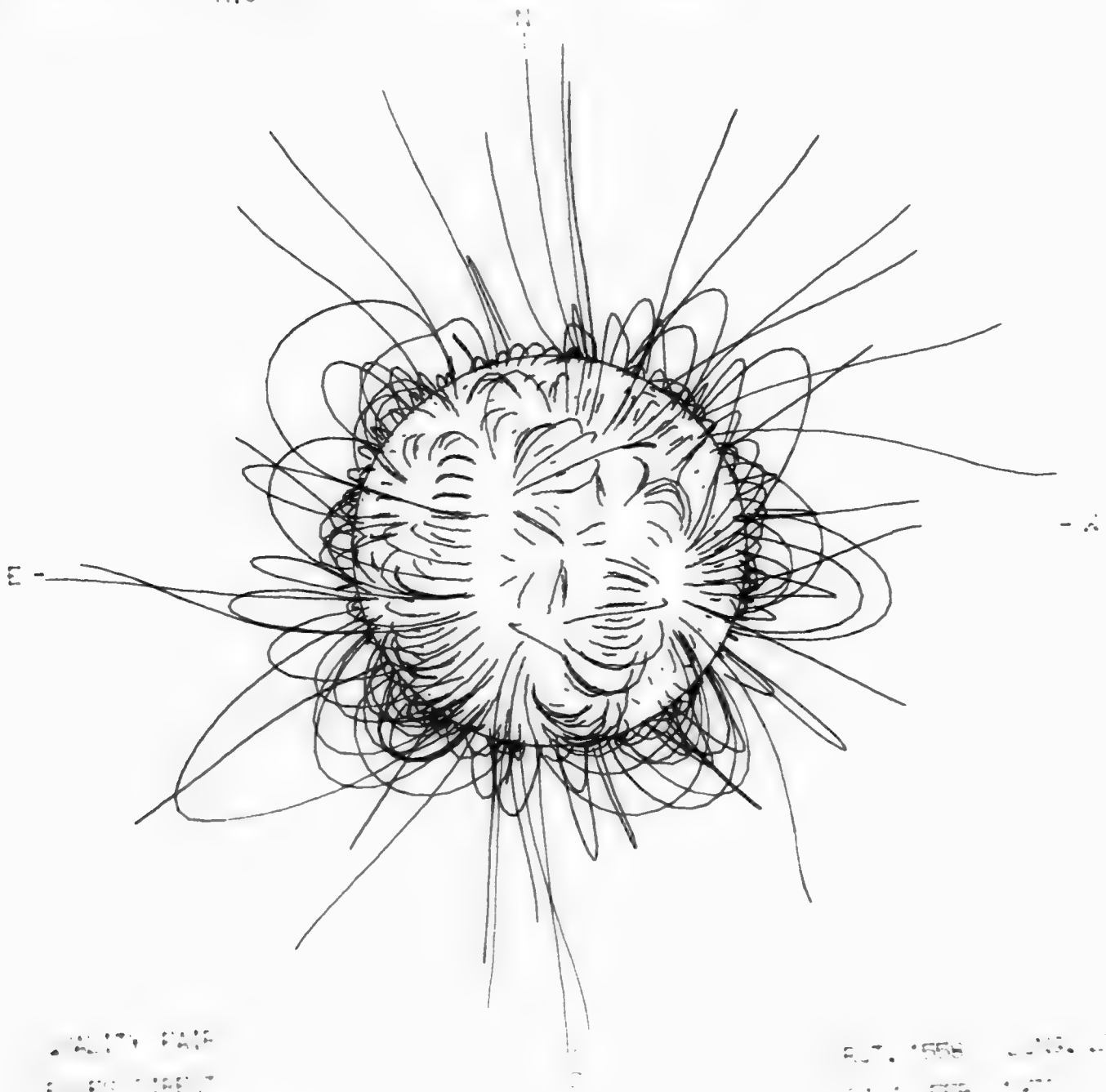
POLES DIRECT

DATA [illegible]

ROT. 1558 [illegible]°

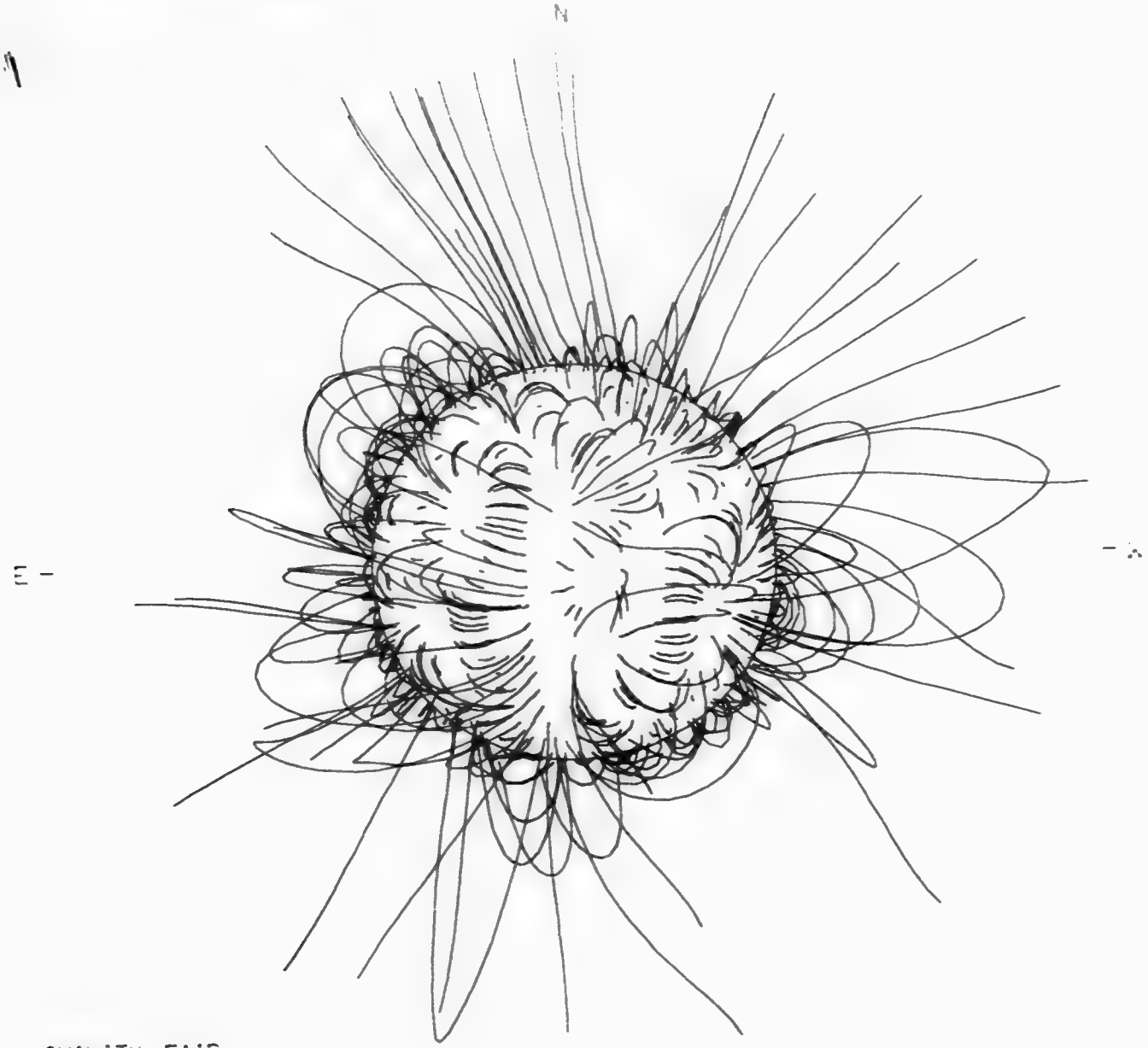
23.6 PER [illegible]

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



QUALITY FAIR
POLES DIRECT
DATA WINDOW 1558.00

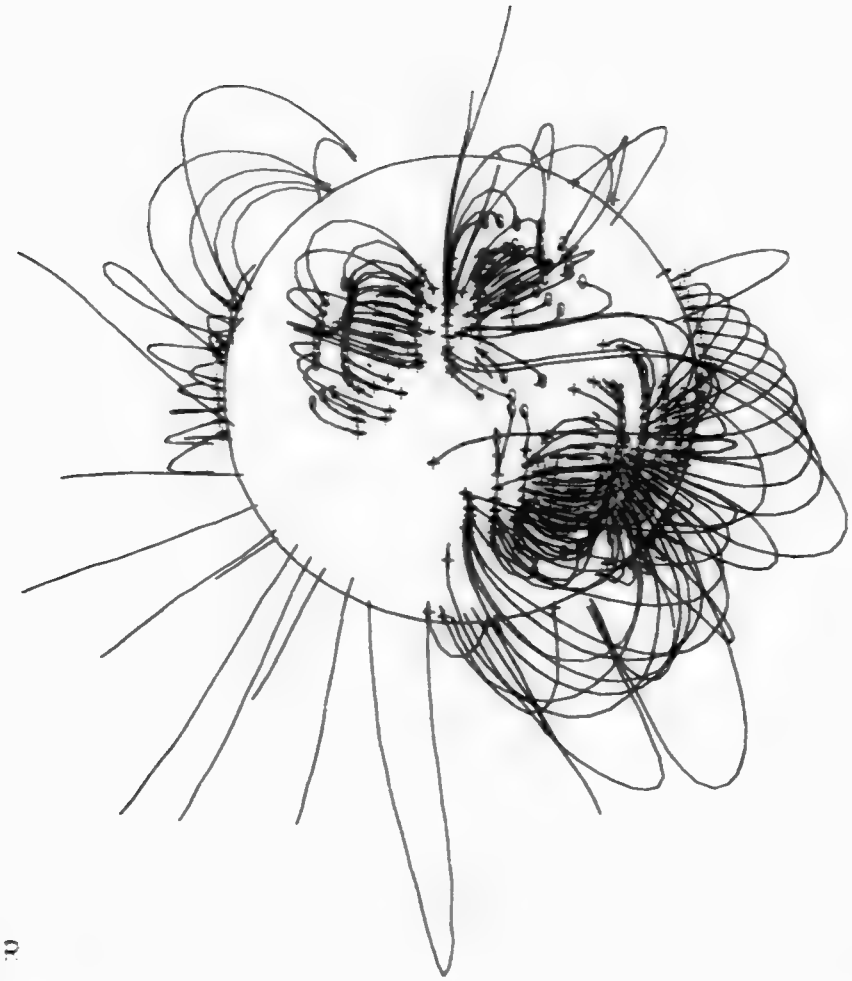
ROT. 1558 LONG. 351°
25.2 FEB 19[illegible]

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N

E

A



S

QUALITY FAIR

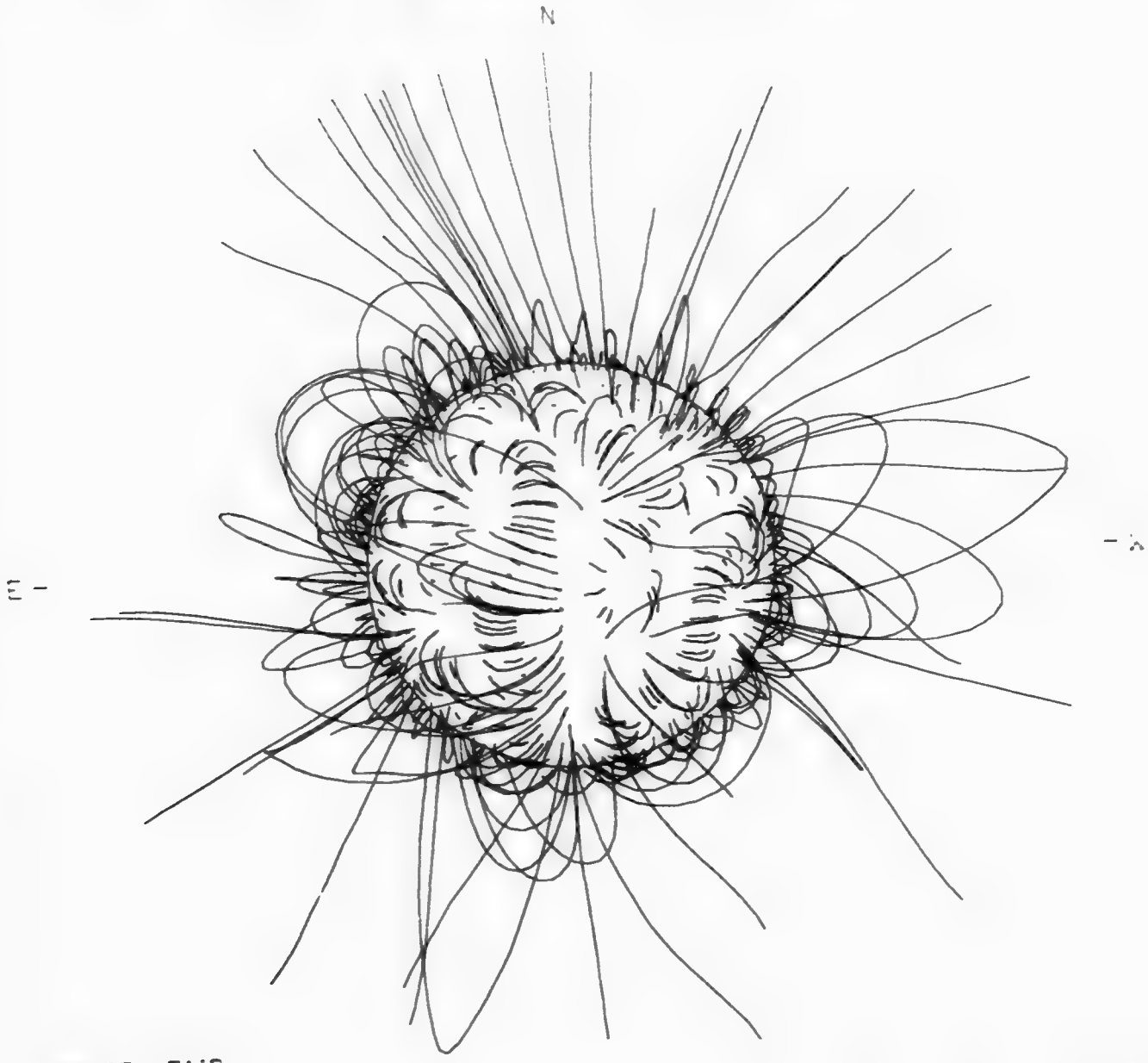
POLES DIRECT

DATA WINDOW 1558.00

ROT. 1558 LONG. 261°

25.2 FEB 1971

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



QUALITY FAIR

POLES DIRECT

DATA WINDOW 1558.00

ROT. 1558 LONG. 251°

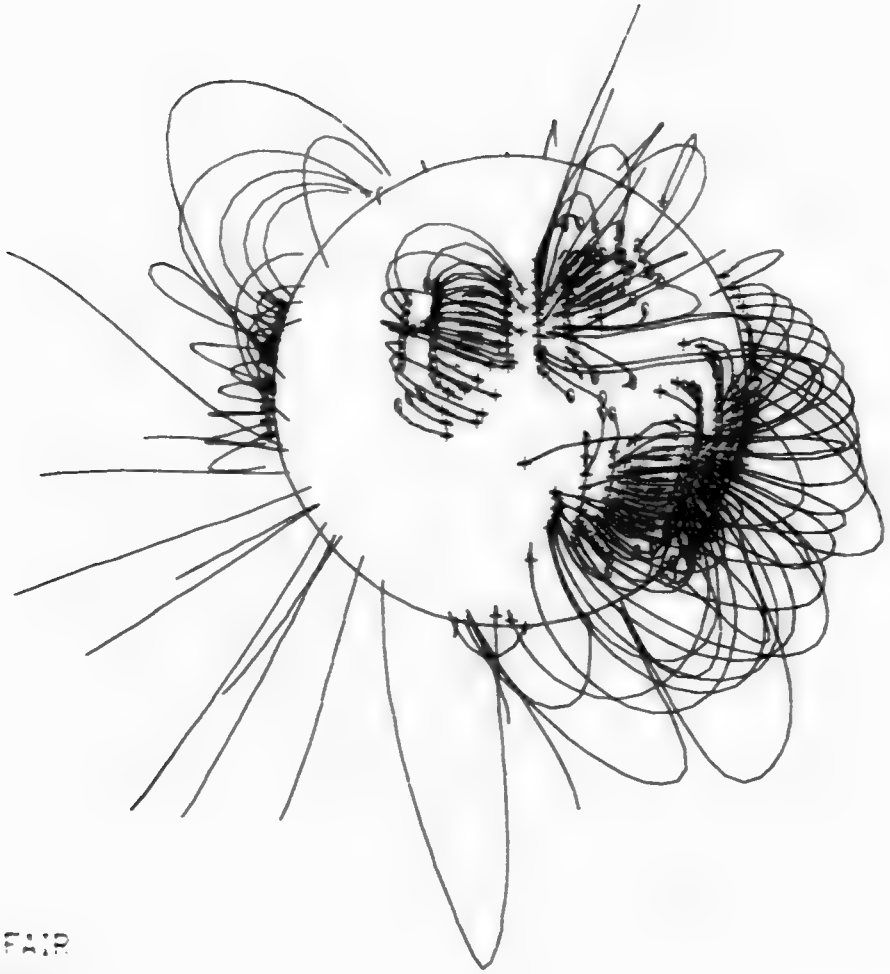
25.9 FEB 197[illegible]

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N

E -

- A



S

QUALITY FAIR

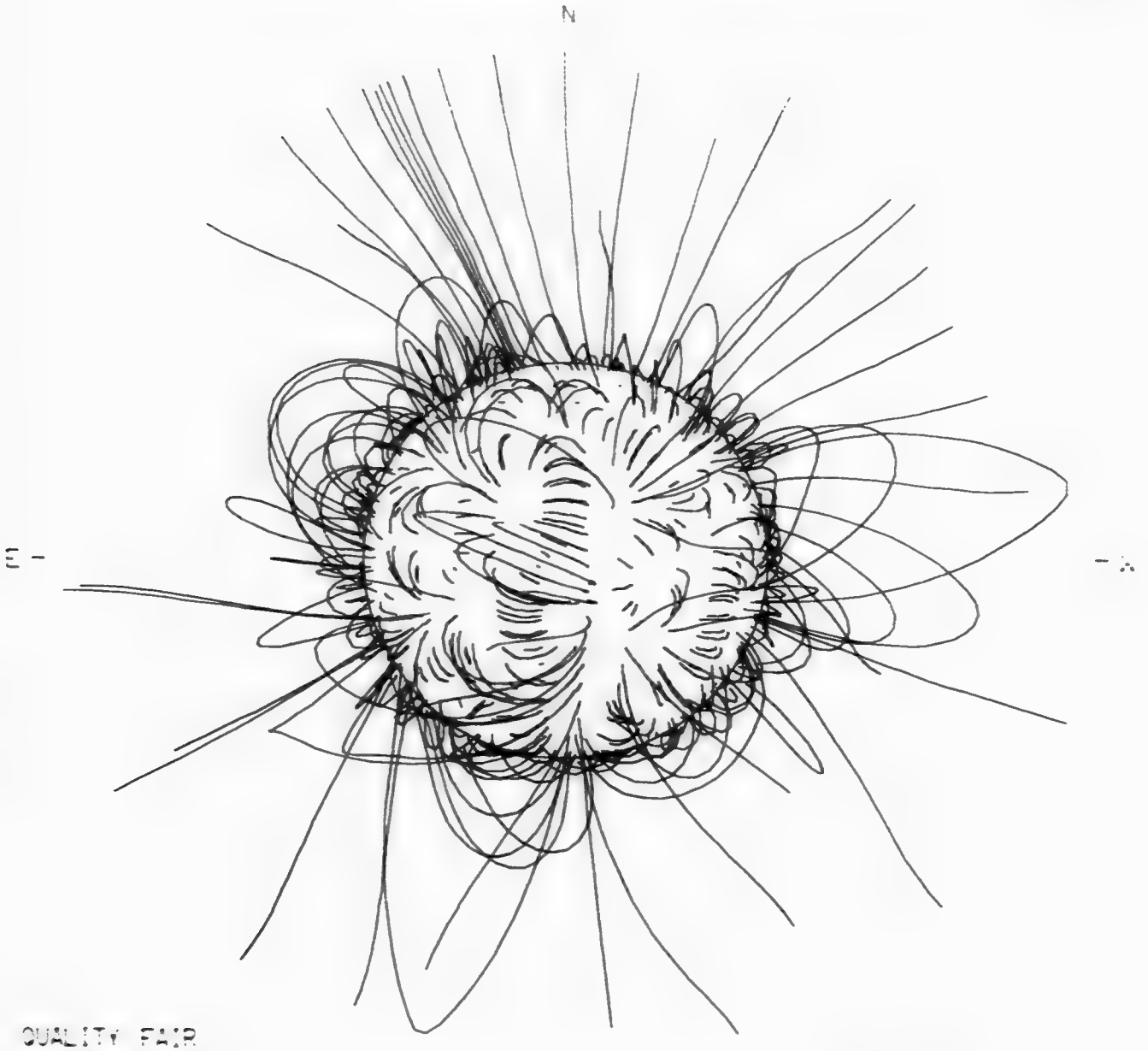
POLES DIRECT

DATA WINDOW 1558.00

ROT. 1558 LONG. 25[illegible]°

25.9 FEB 19[illegible]

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



QUALITY FAIR

POLES DIRECT

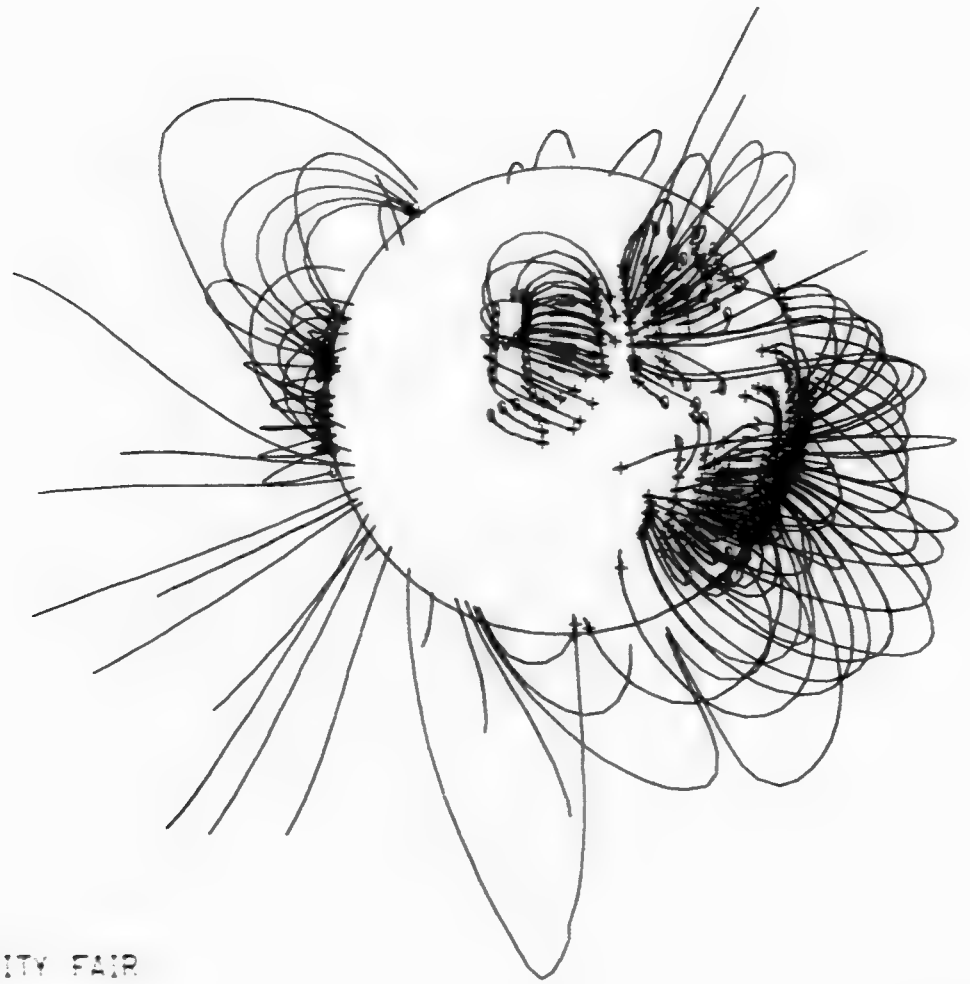
DATA WINDOW 1558.00

ROT. 1558 LONG. 240°

26 FEB 1971

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N



E

W

S

QUALITY FAIR

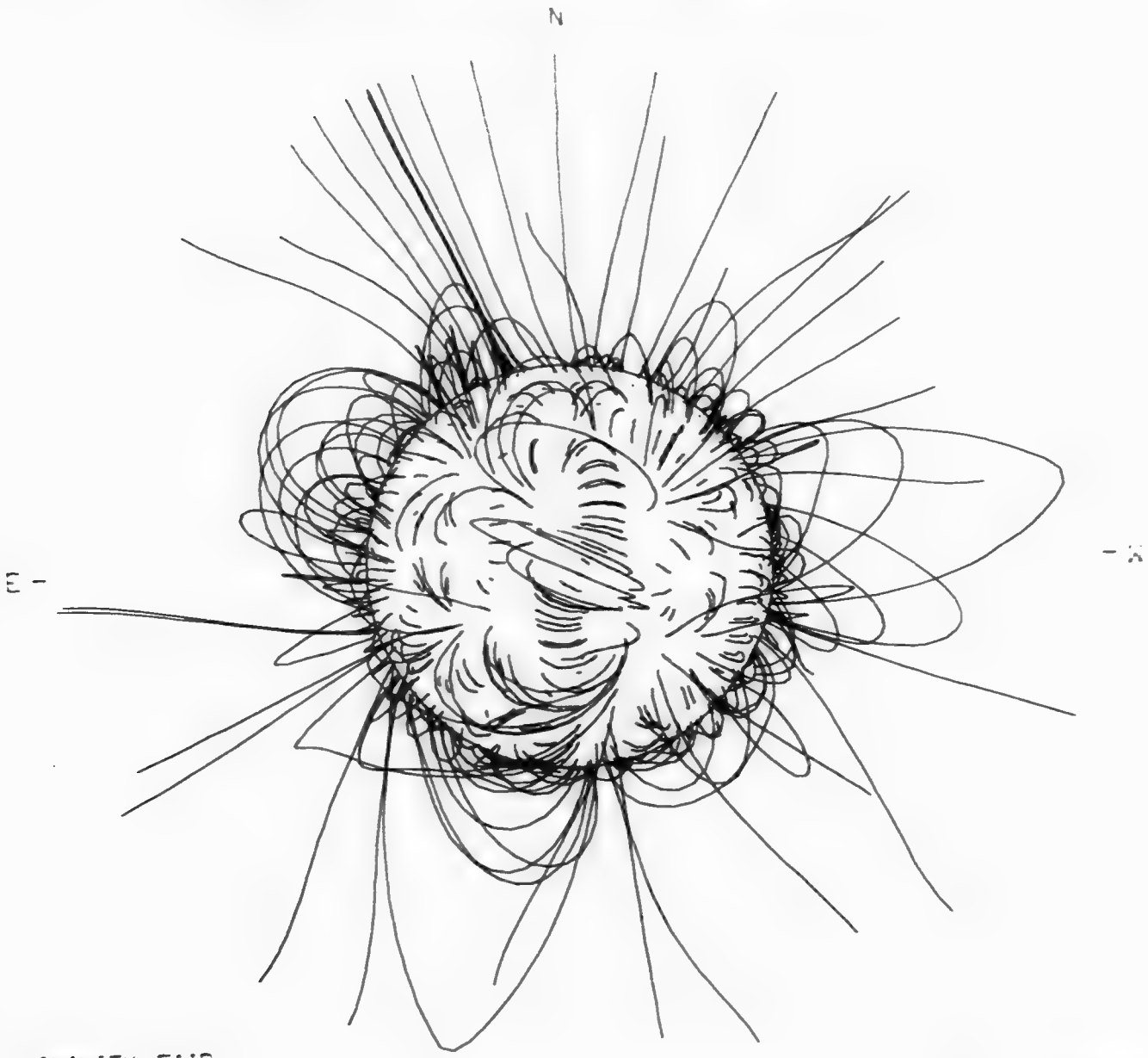
POLES DIRECT

DATA WINDOW 1558.00

ROT. 1558 LONG. 240°

26.7 FEB 1971

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



QUALITY FAIR

POLES DIRECT

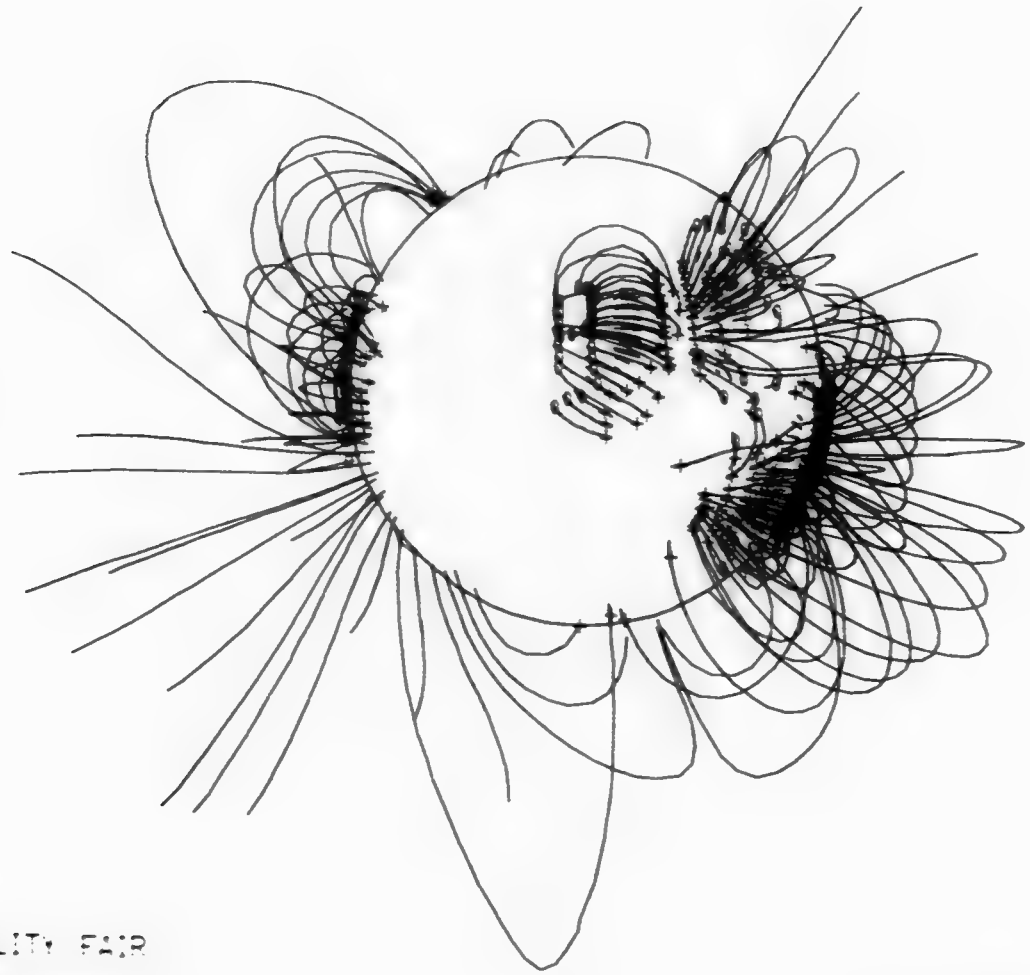
DATA WINDOW 1558.00

ROT. 1558 LONG. 251°

27.5 FEB 1970

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N



E

S

QUALITY FAIR

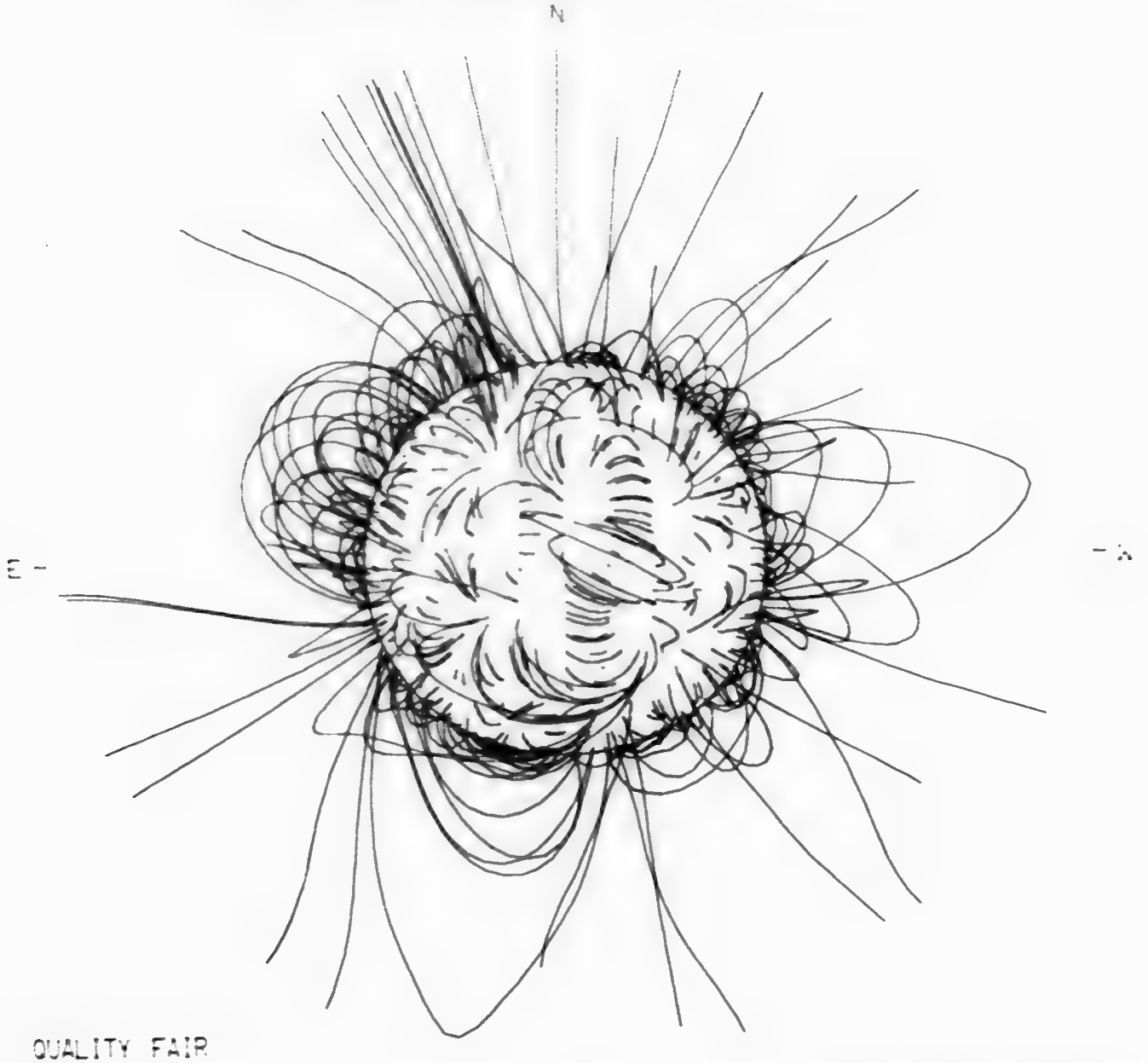
POLES DIRECT

DATA WINDOW 1558.00

ROT. 1558 LONG. 25°

27.5 FEB 197

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



QUALITY FAIR

POLES DIRECT

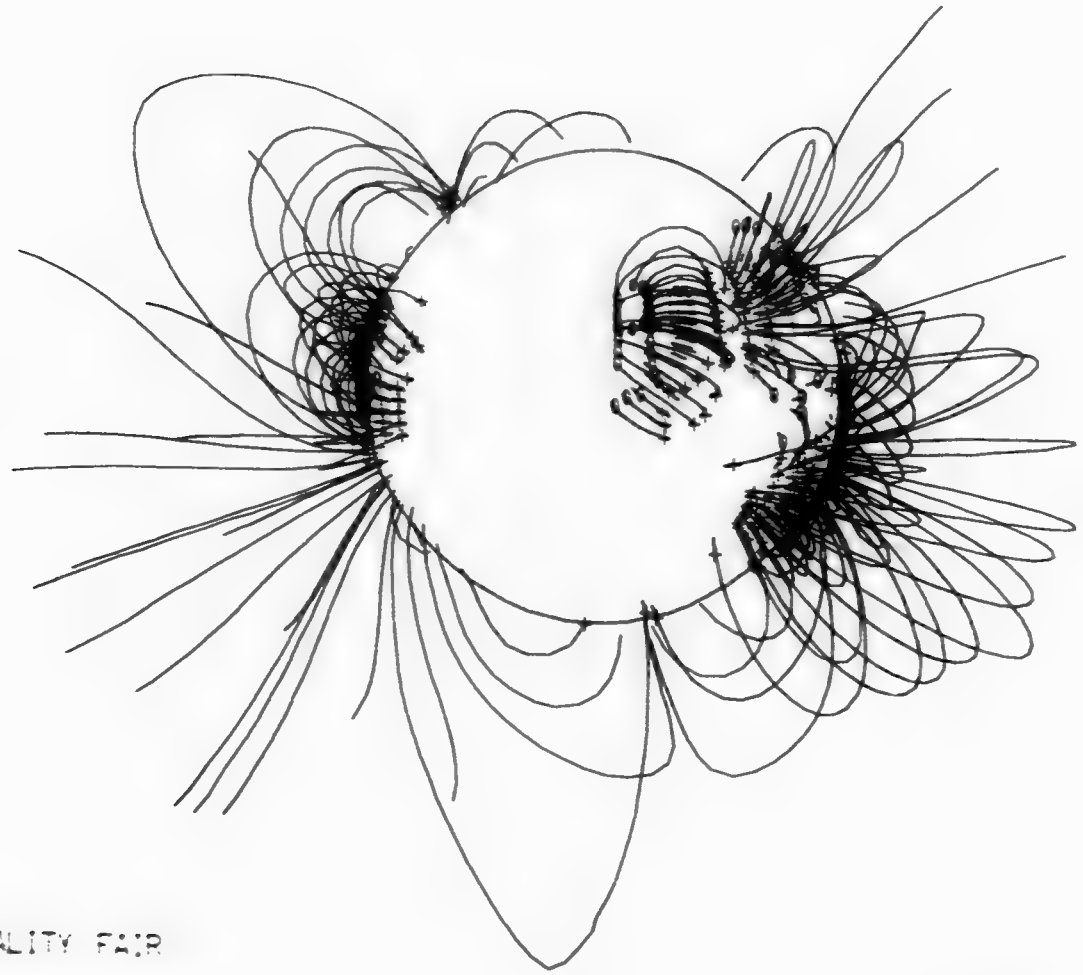
DATA WINDOW 1558.00

ROT. 1558 LONG. 221°

28.2 FEB 1971

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N



E

A

QUALITY FAIR

POLES DIRECT

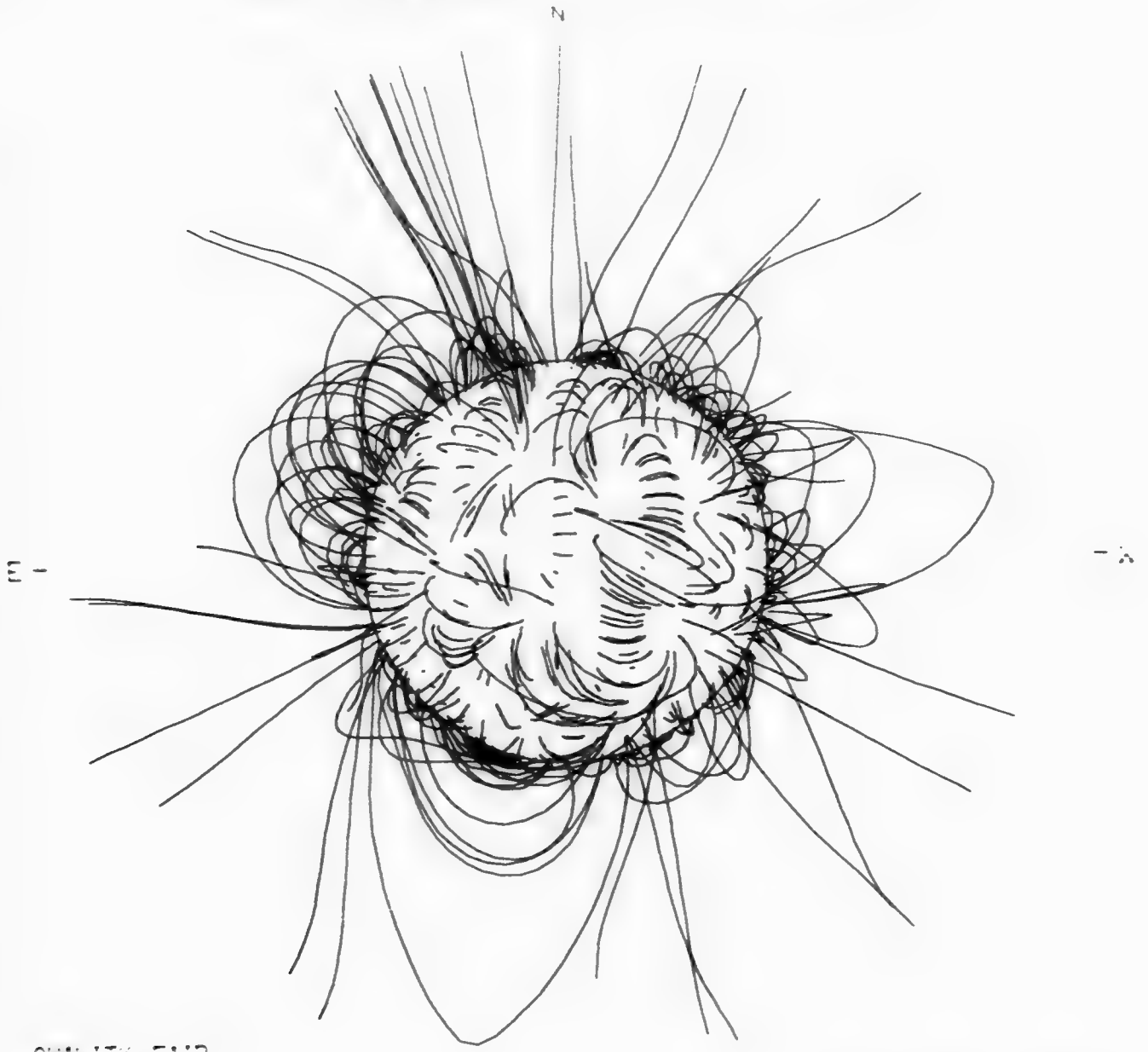
DATA WINDOW 1558.00

S

ROT. 1558 LONG. 221°

28.2 FEB 197[illegible]

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



QUALITY FAIR

POLES DIRECT

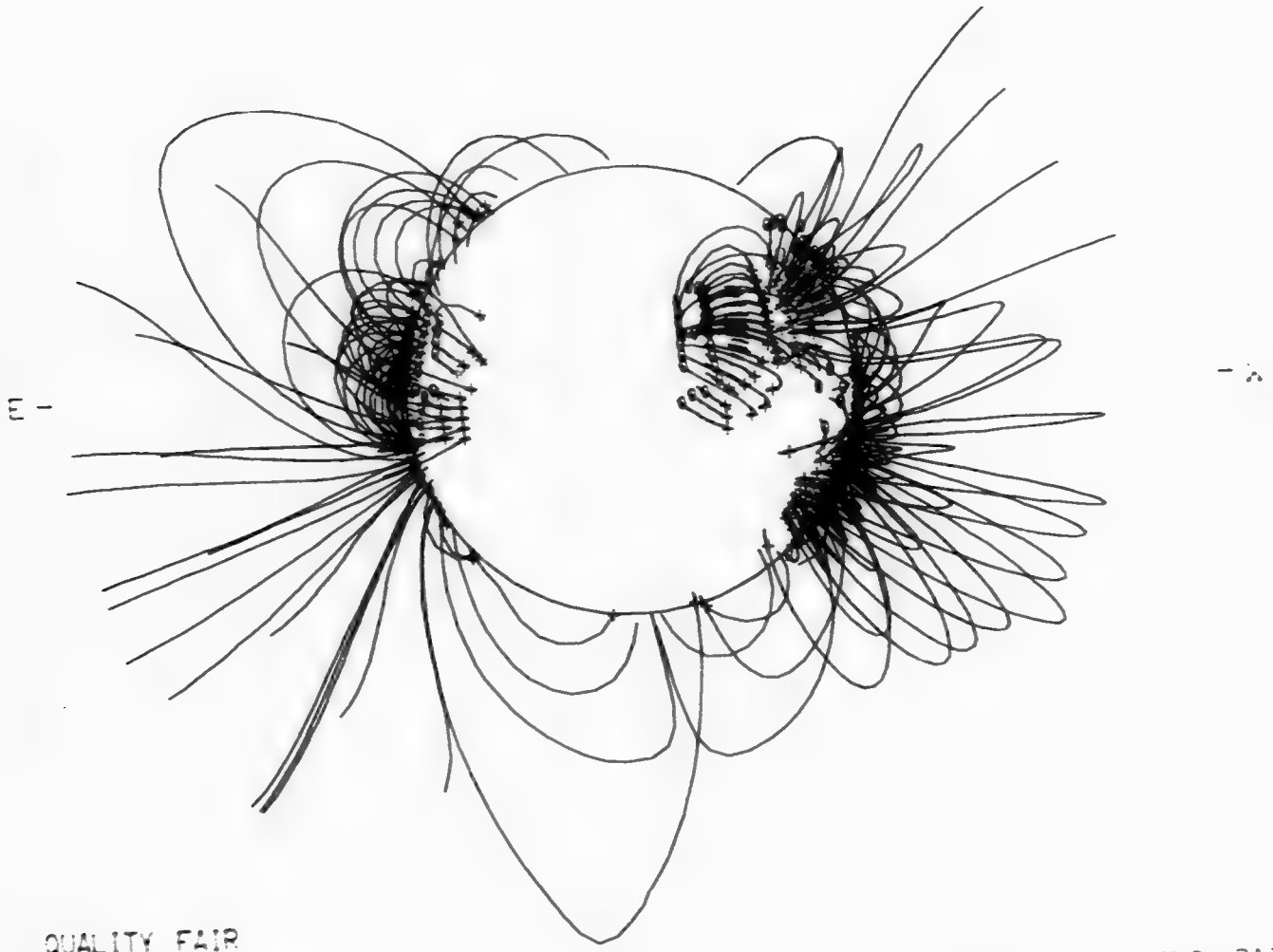
DATA WINDOW 1558.00

ROT. 1558 LONG. 210°

1.0 MAR 1970

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N



S

QUALITY FAIR

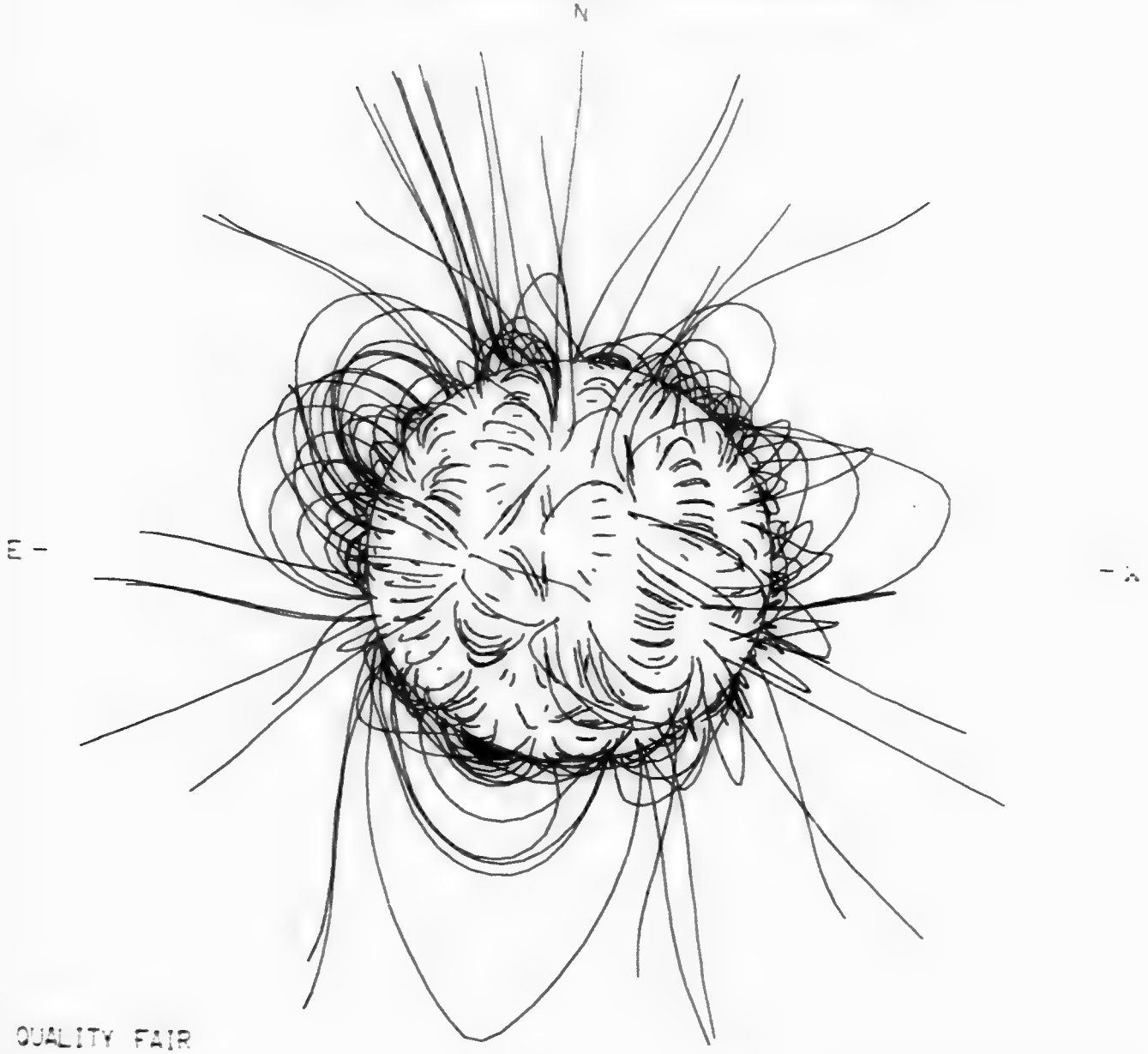
POLES DIRECT

DATA WINDOW 1558.00

ROT. 1558 LONG. 21°

1.0 MAR 1970

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



QUALITY FAIR

POLES DIRECT

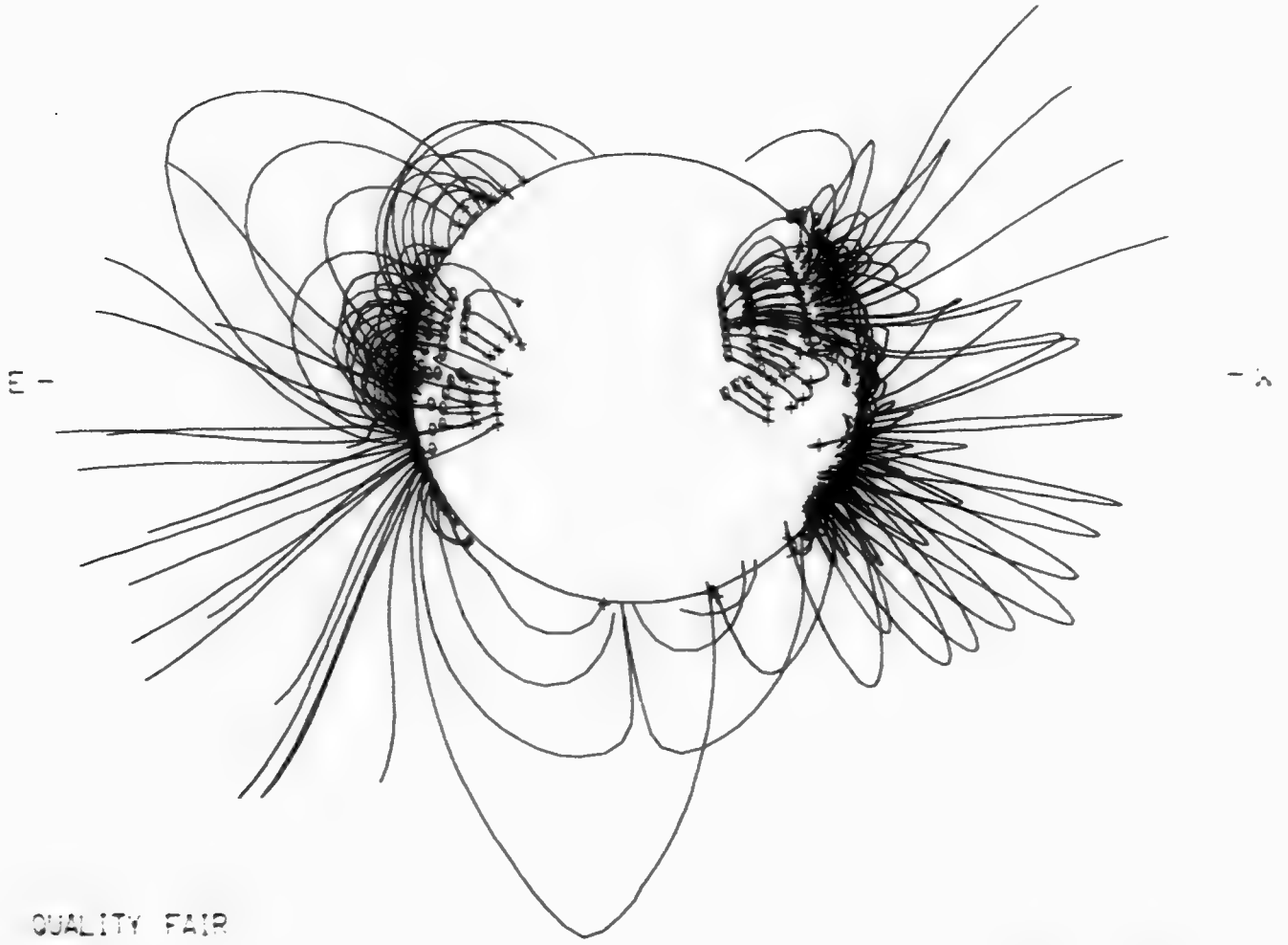
DATA WINDOW 1558.00

ROT. 1558 LONG. 200°

17 MAR 197[illegible]

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N



QUALITY FAIR

POLES DIRECT

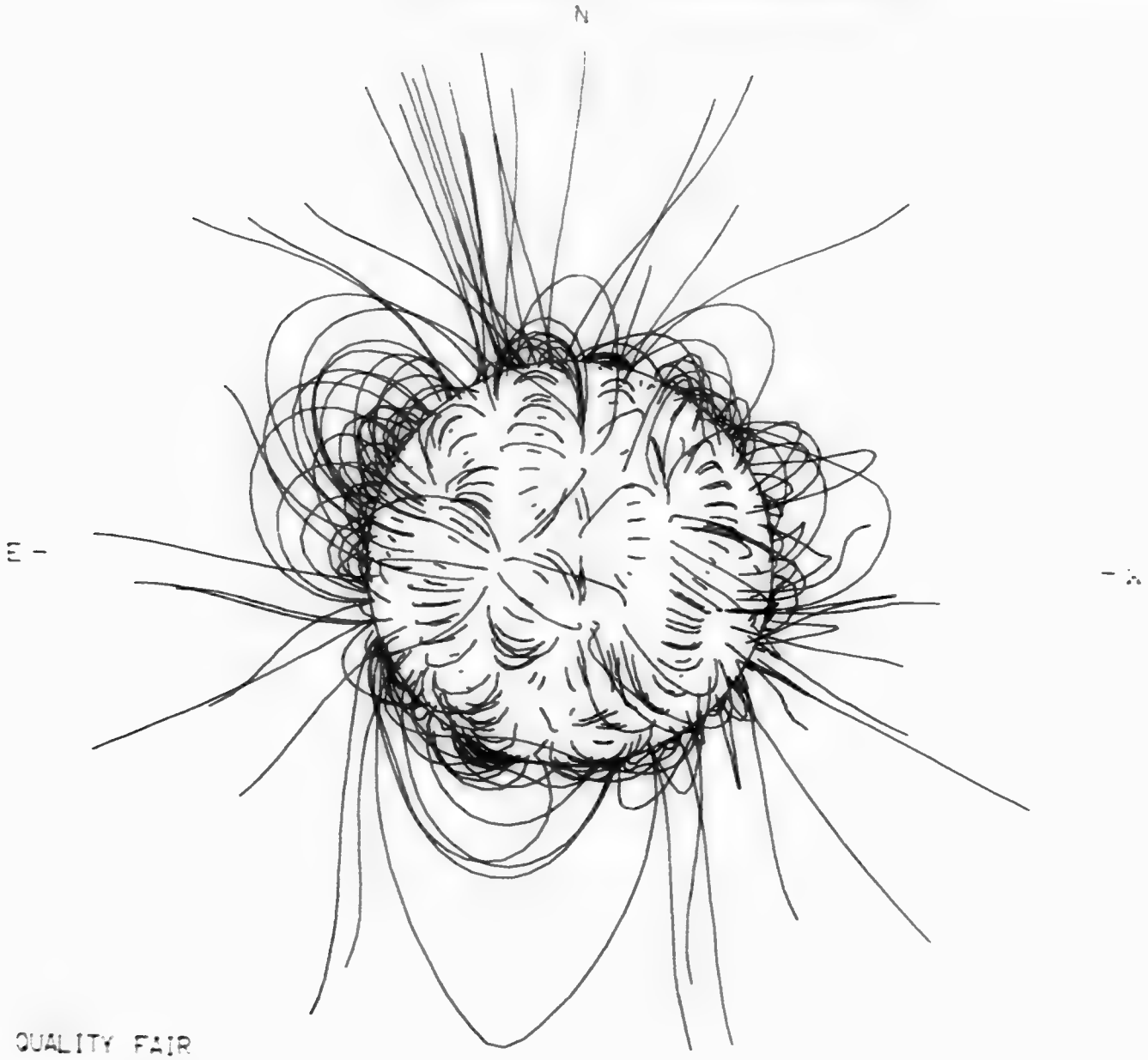
DATA WINDOW 1558.00

S

ROT. 1558 LONG. 2[illegible]°

17 MAR 197[illegible]

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



QUALITY FAIR

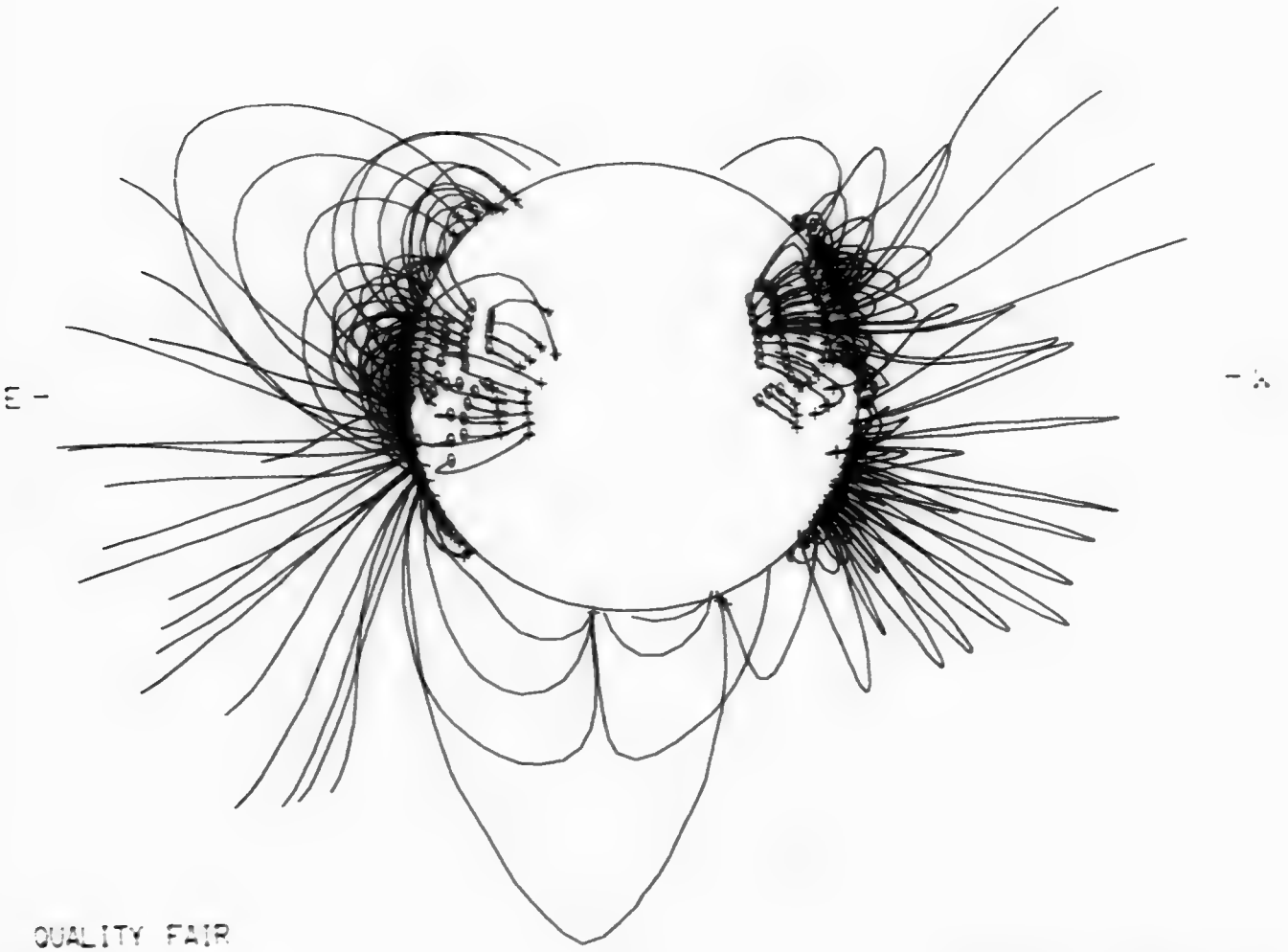
POLES DIRECT

DATA WINDOW 1558.00

ROT. 1558 LONG. 19[illegible]°

25 MAR 197[illegible]

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



QUALITY FAIR

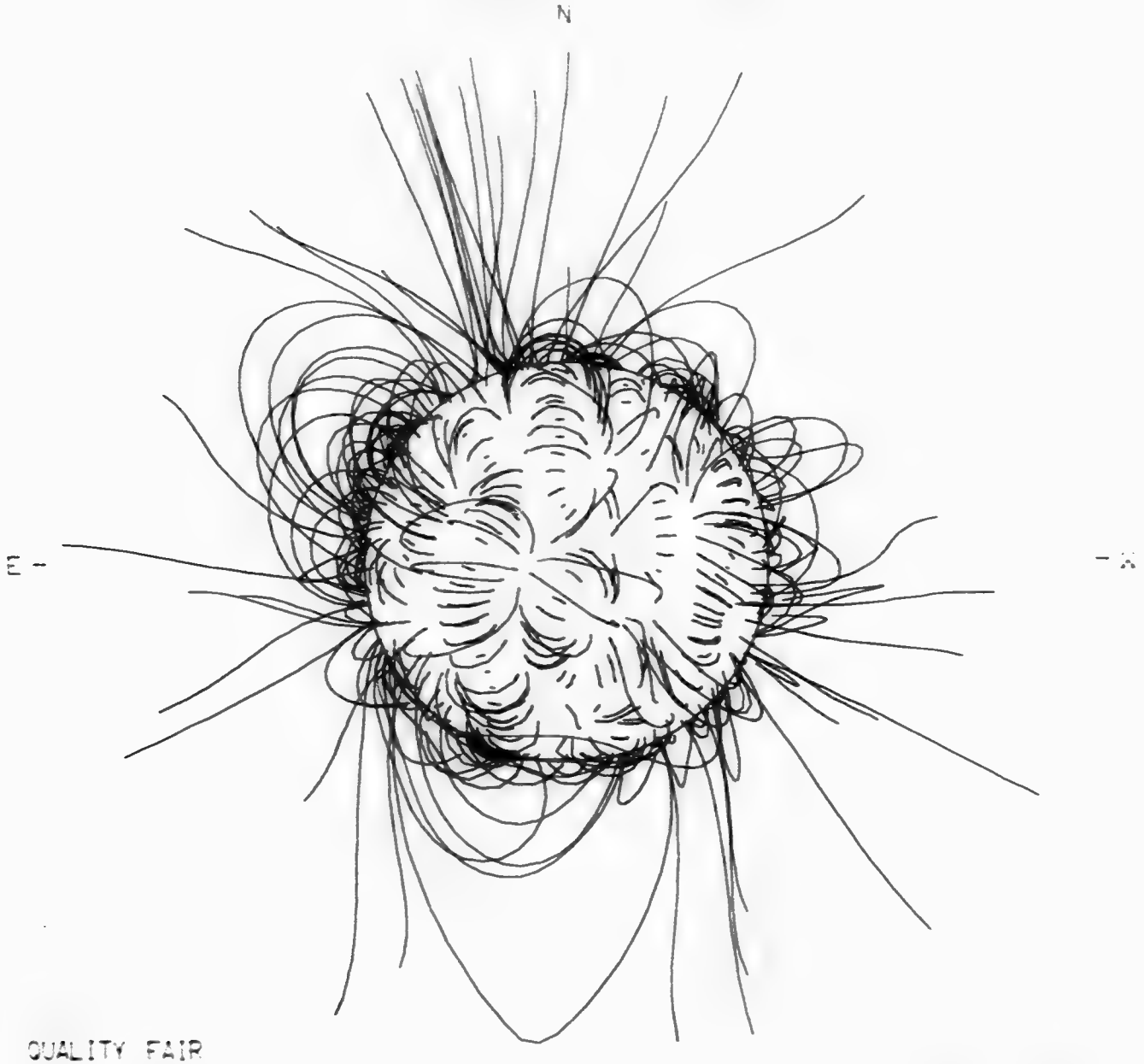
POLES DIRECT

DATA WINDOW 1558.00

ROT. 1558 LONG. 193°

2.5 MAR 1970

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



QUALITY FAIR

POLES DIRECT

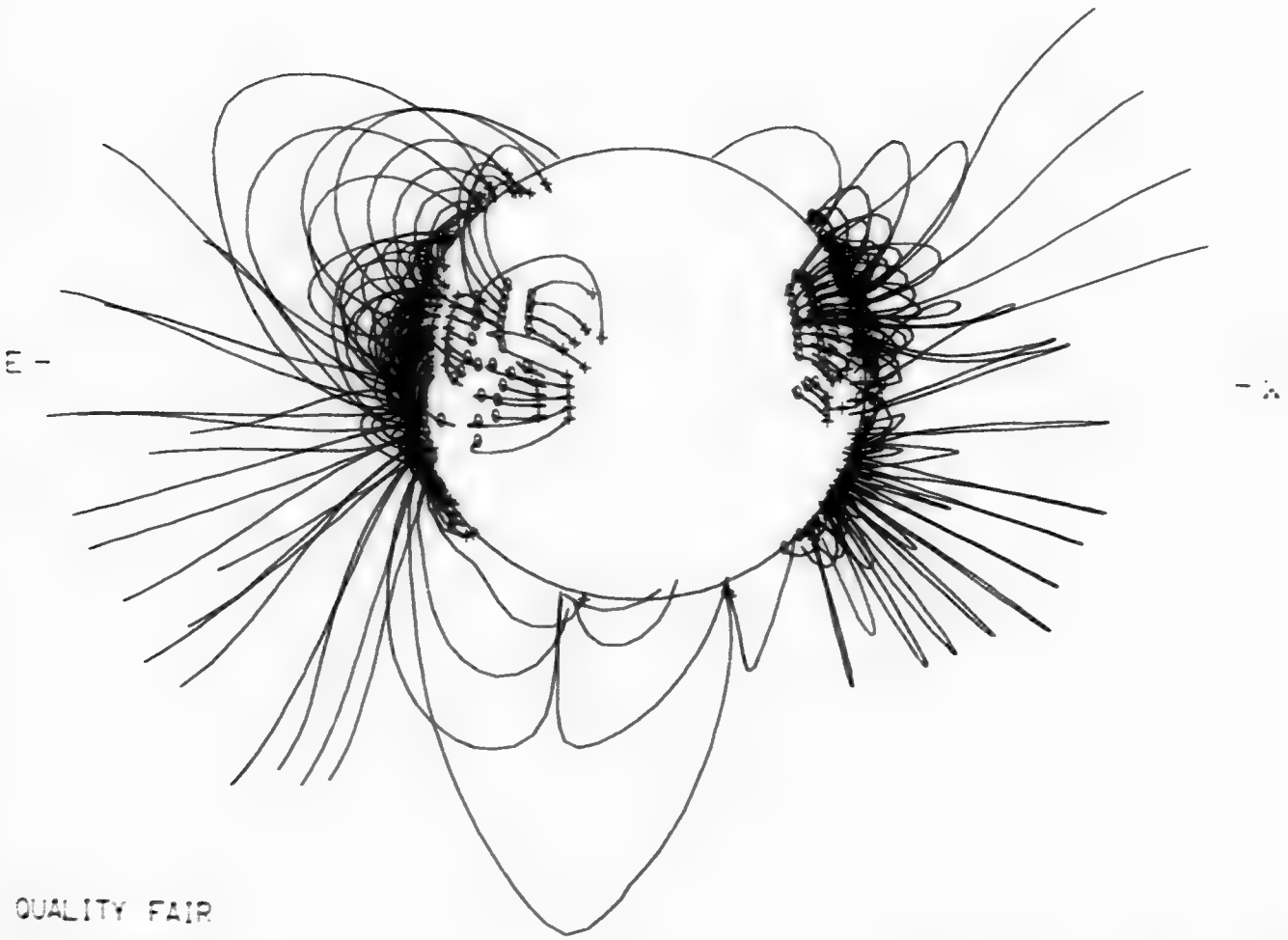
DATA WINDOW 1558.00

ROT. 1558 LONG. 18[illegible]°

3.3 MAR 19[illegible]

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N



QUALITY FAIR

POLES DIRECT

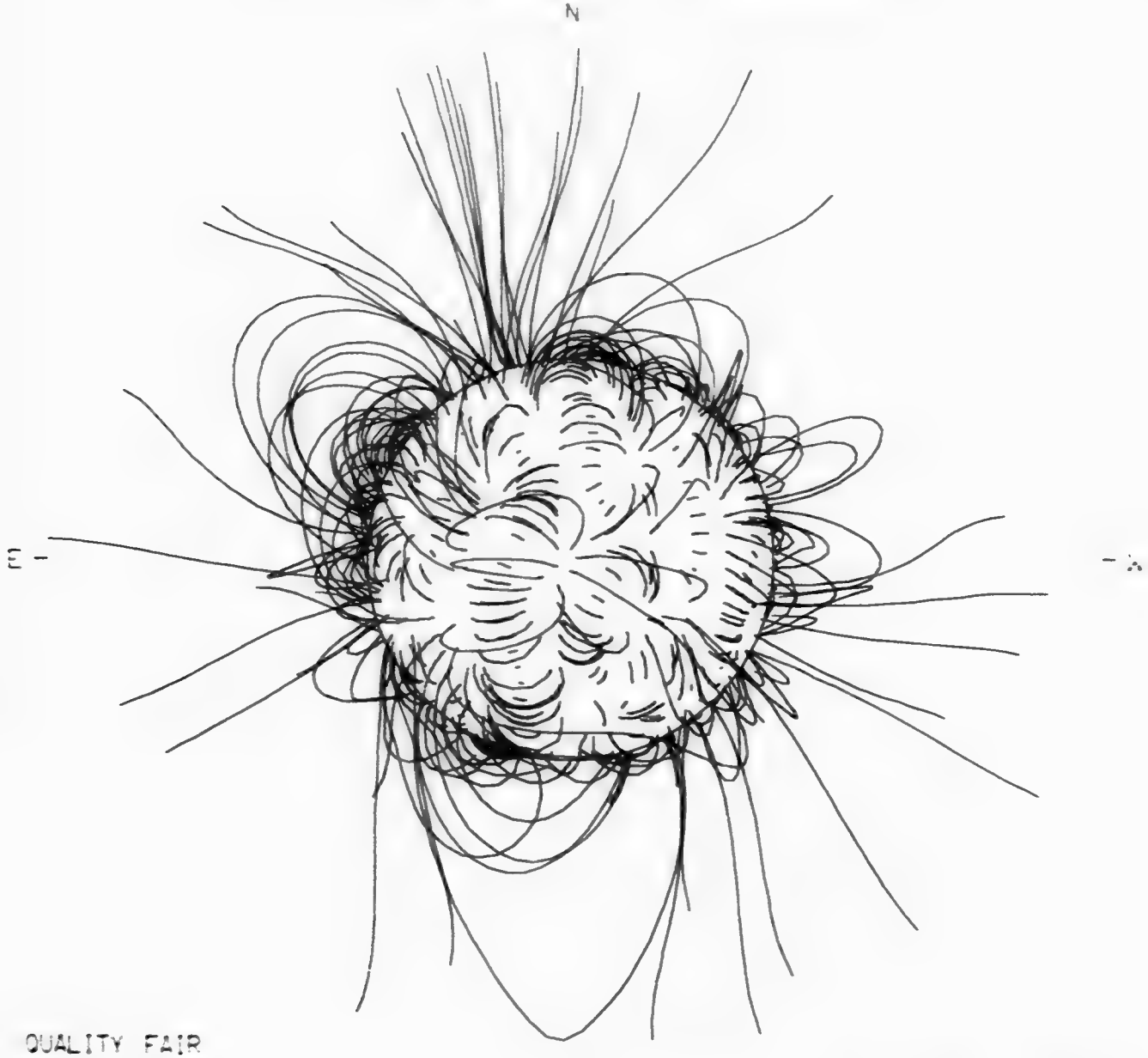
DATA WINDOW 1558.00

S

ROT. 1558 LONG. 18[illegible]°

3.3 MAR 197[illegible]

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



QUALITY FAIR

POLES DIRECT

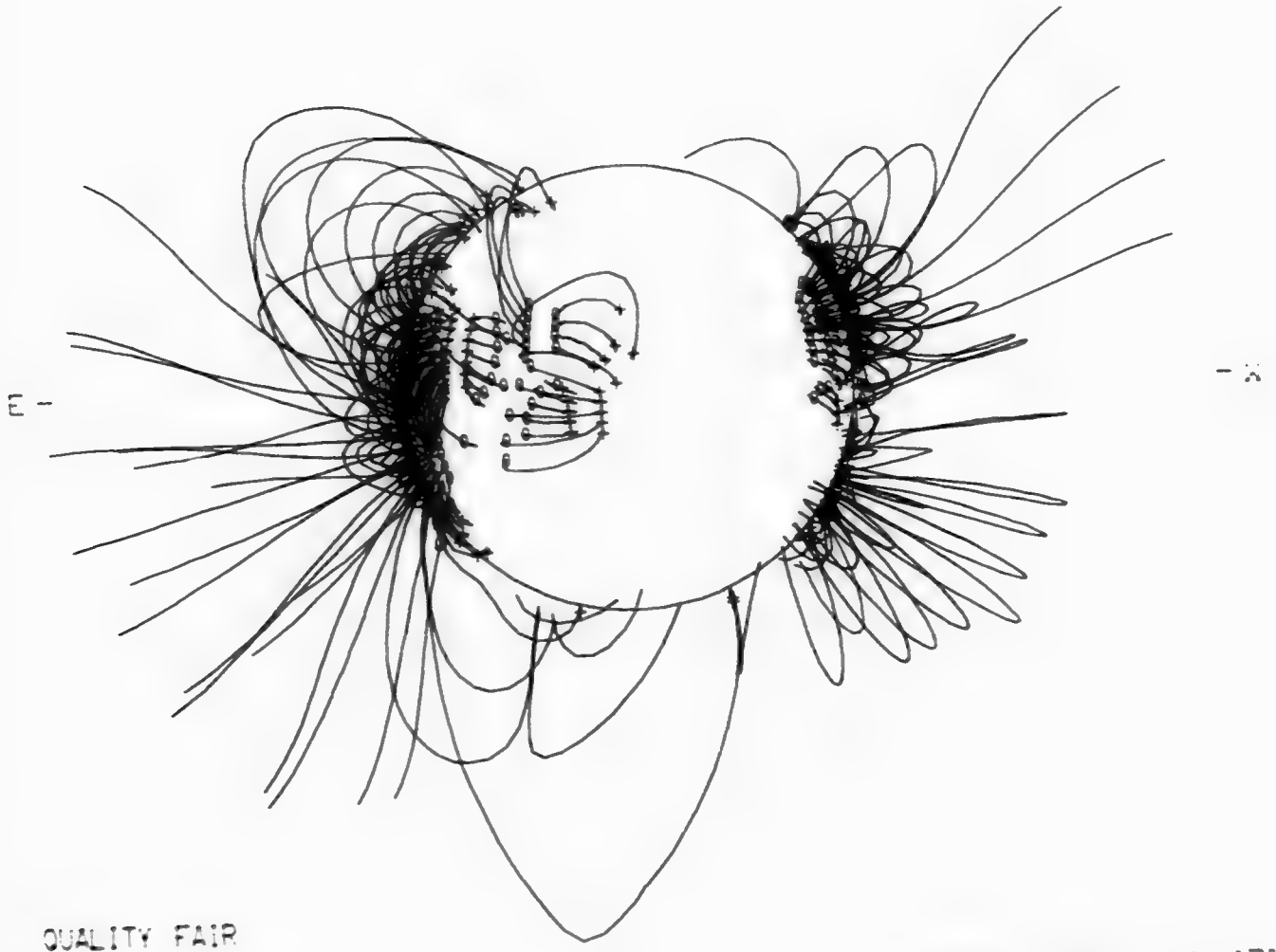
DATA WINDOW 1558.00

ROT. 1558 LONG. 17°

2.0 MAR 197[illegible]

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N



QUALITY FAIR

POLES DIRECT

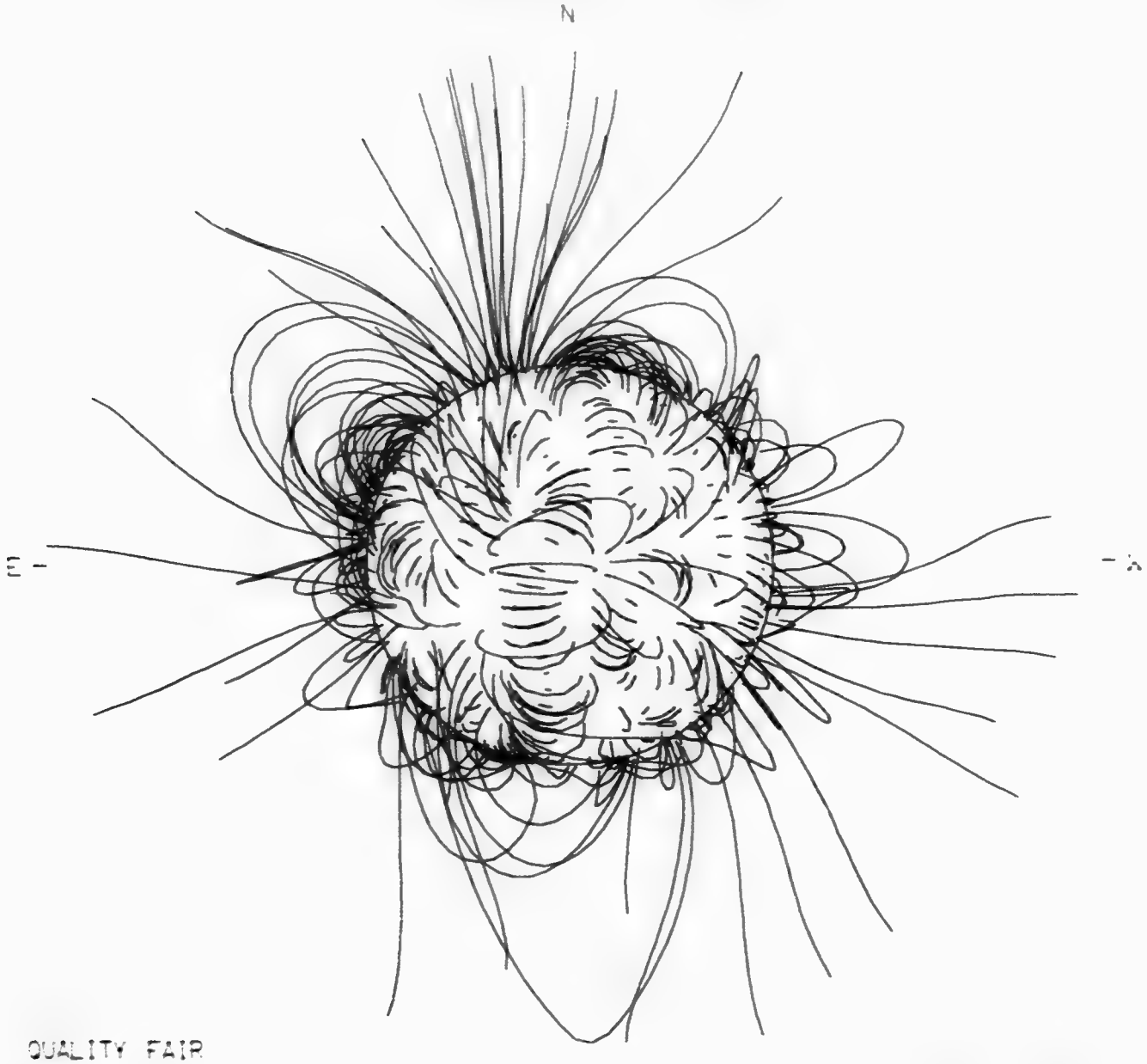
DATA WINDOW 1558.00

S

ROT. 1558 LONG. 17°

2.0 MAR 1970

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



QUALITY FAIR

POLES DIRECT

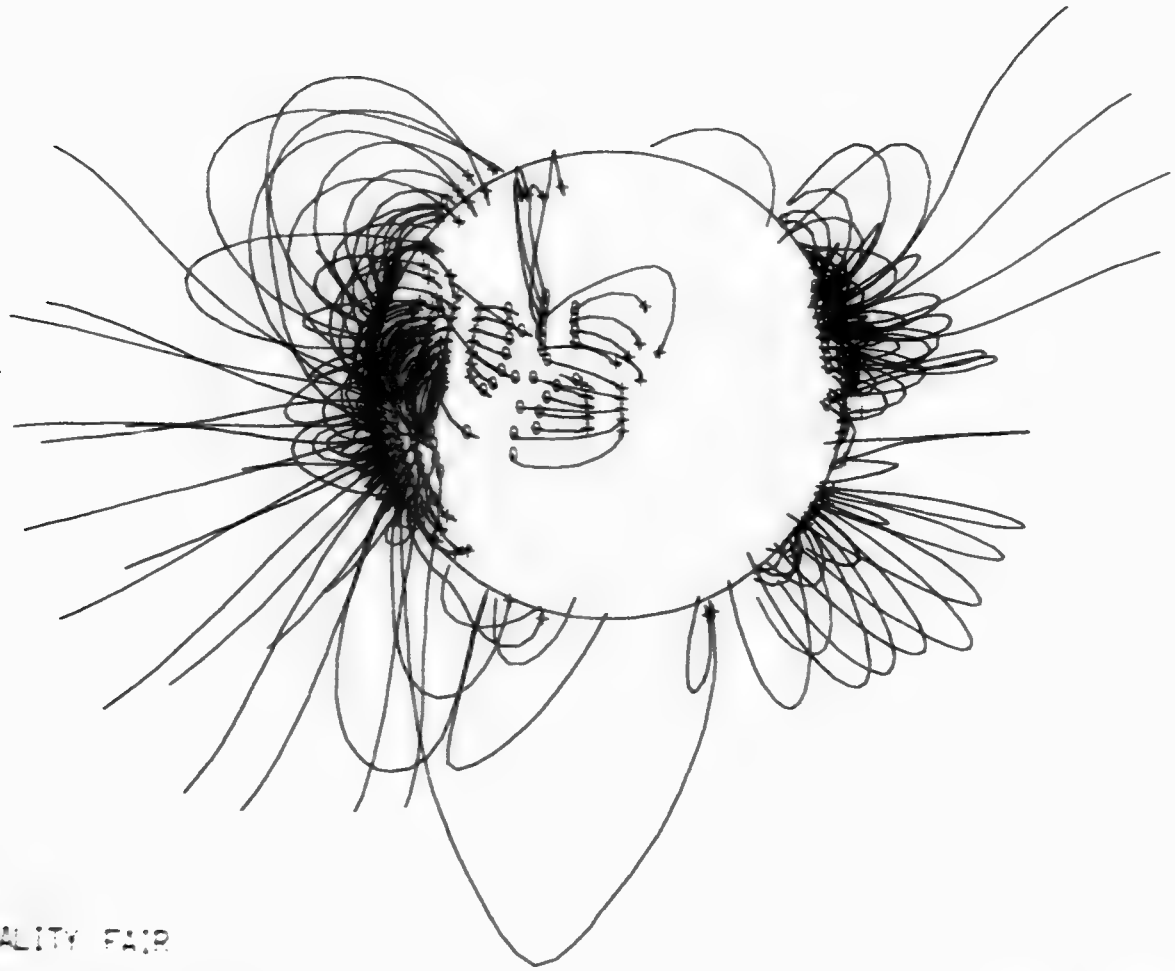
DATA WINDOW 1558.00

ROT. 1558 LONG. 160°

2.8 MAR 1971

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N



E

A

S

QUALITY FAIR

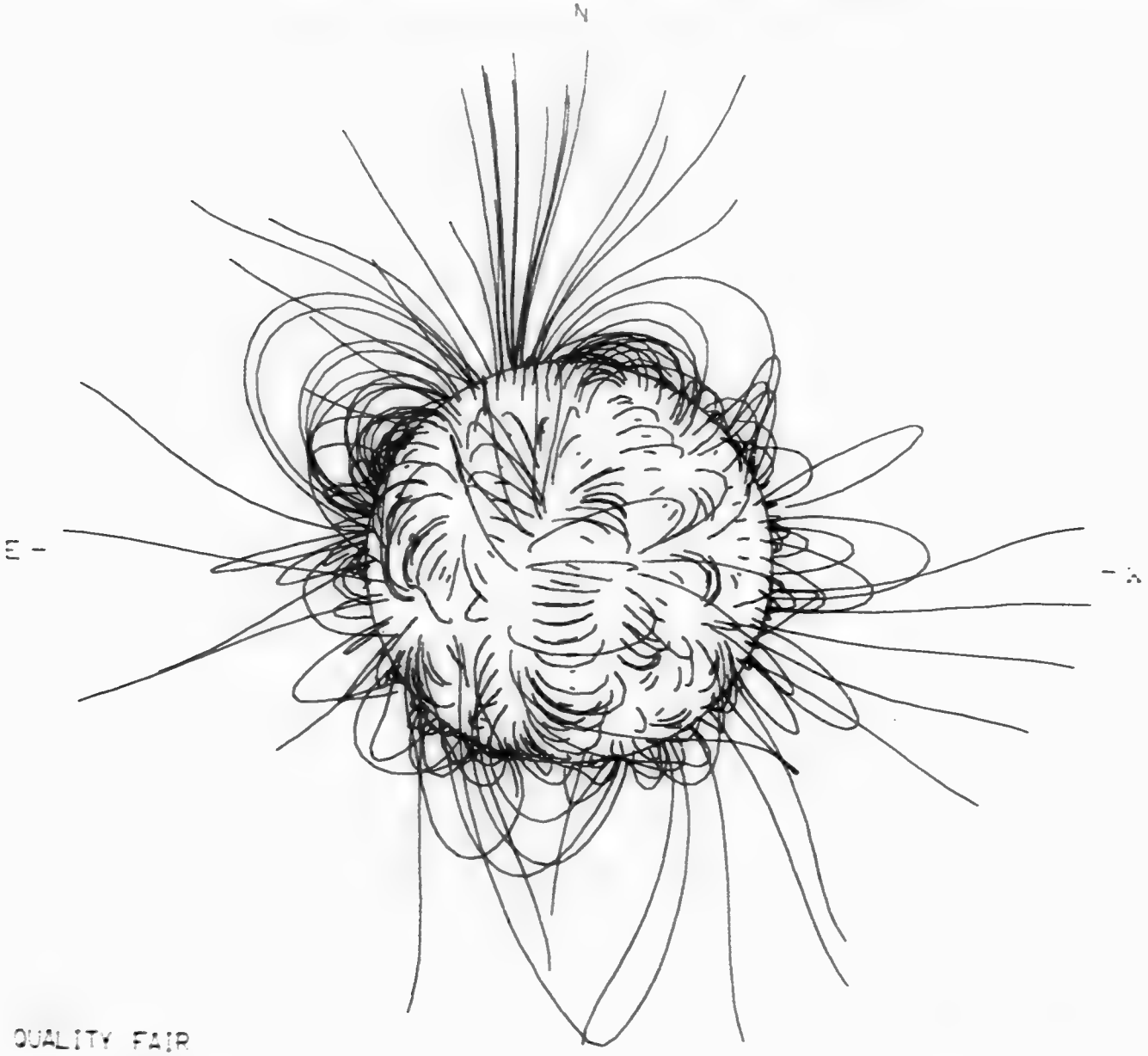
POLES DIRECT

DATA WINDOW 1558.00

ROT. 1558 LONG. 161°

4.8 MAR 197[illegible]

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



QUALITY FAIR

POLES DIRECT

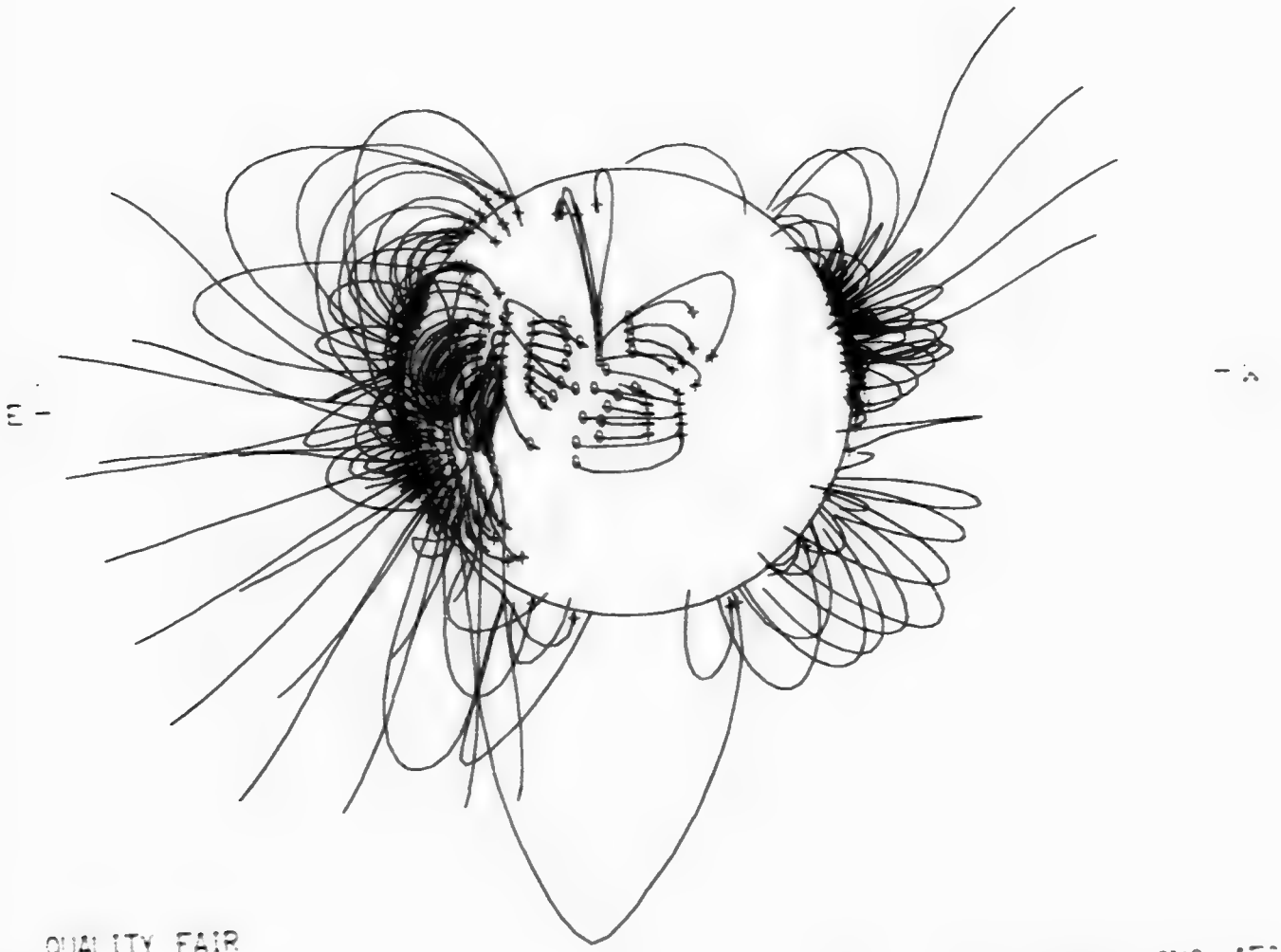
DATA WINDOW 1558.00

ROT. 1558 LONG. 15[illegible]°

5.5 MAR 19[illegible]

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N



E

A

QUALITY FAIR

POLES DIRECT

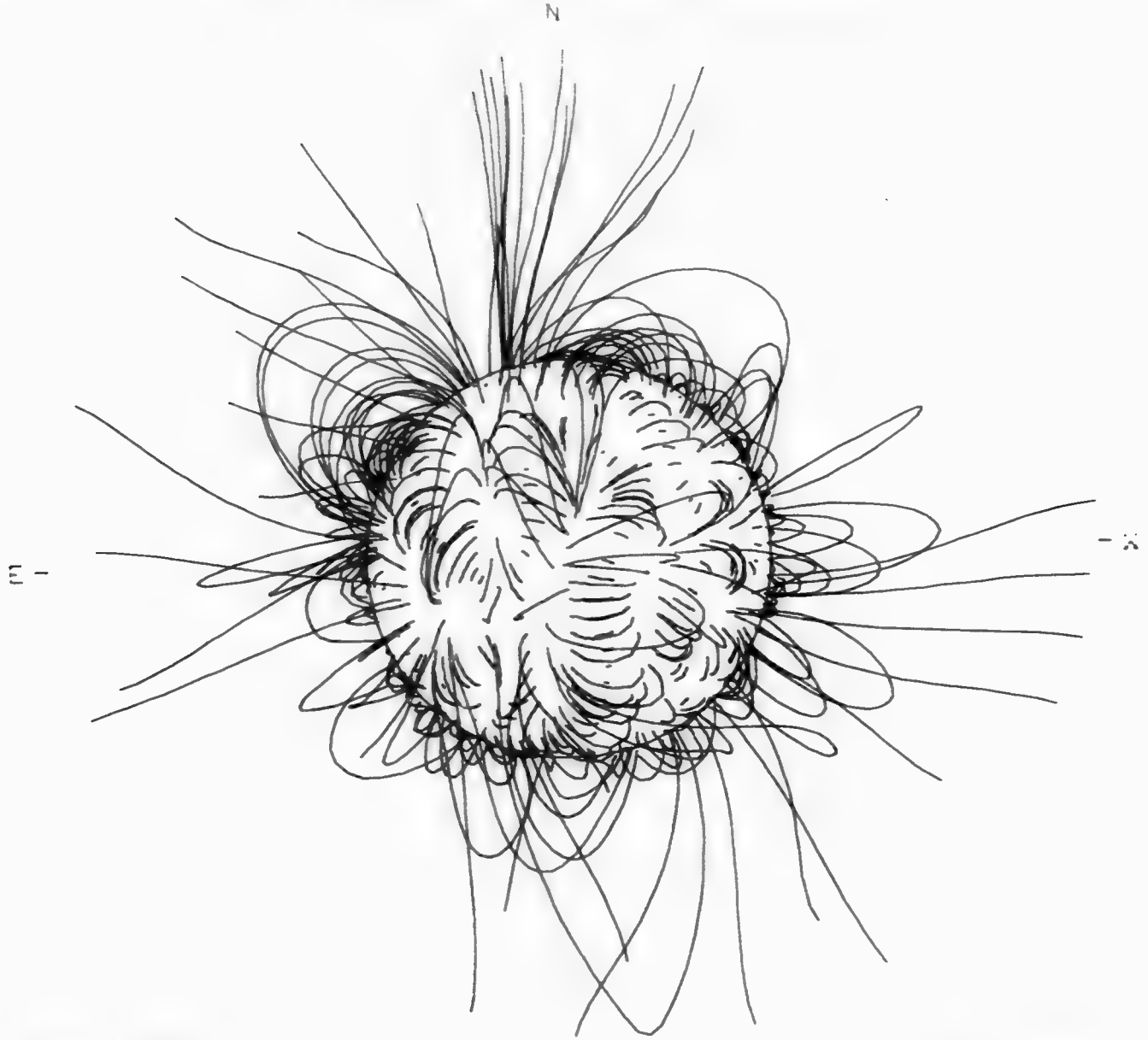
DATA WINDOW 1558.00

S

ROT. 1558 LONG. 15[illegible]°

5.5 MAR 197[illegible]

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



QUALITY FAIR

POLES DIRECT

DATA WINDOW 1558.00

ROT. 1558 LONG. 142°

6.3 MAR 1970

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N

E

W

S

QUALITY FAIR

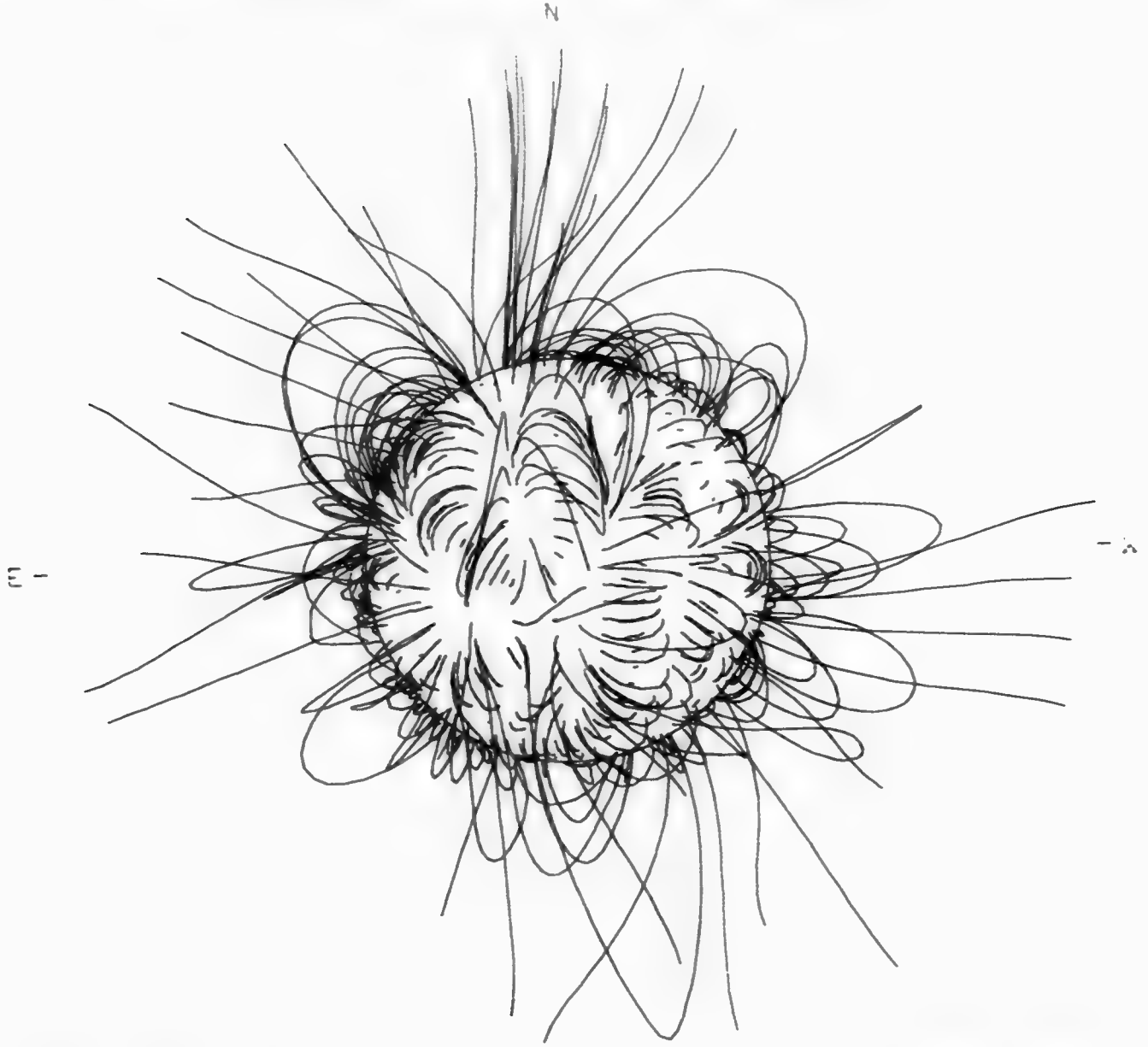
POLES DIRECT

DATA WINDOW 1558.00

ROT. 1558 LONG. 1[illegible]°

6.3 MAR 19[illegible]

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



QUALITY FAIR

POLES DIRECT

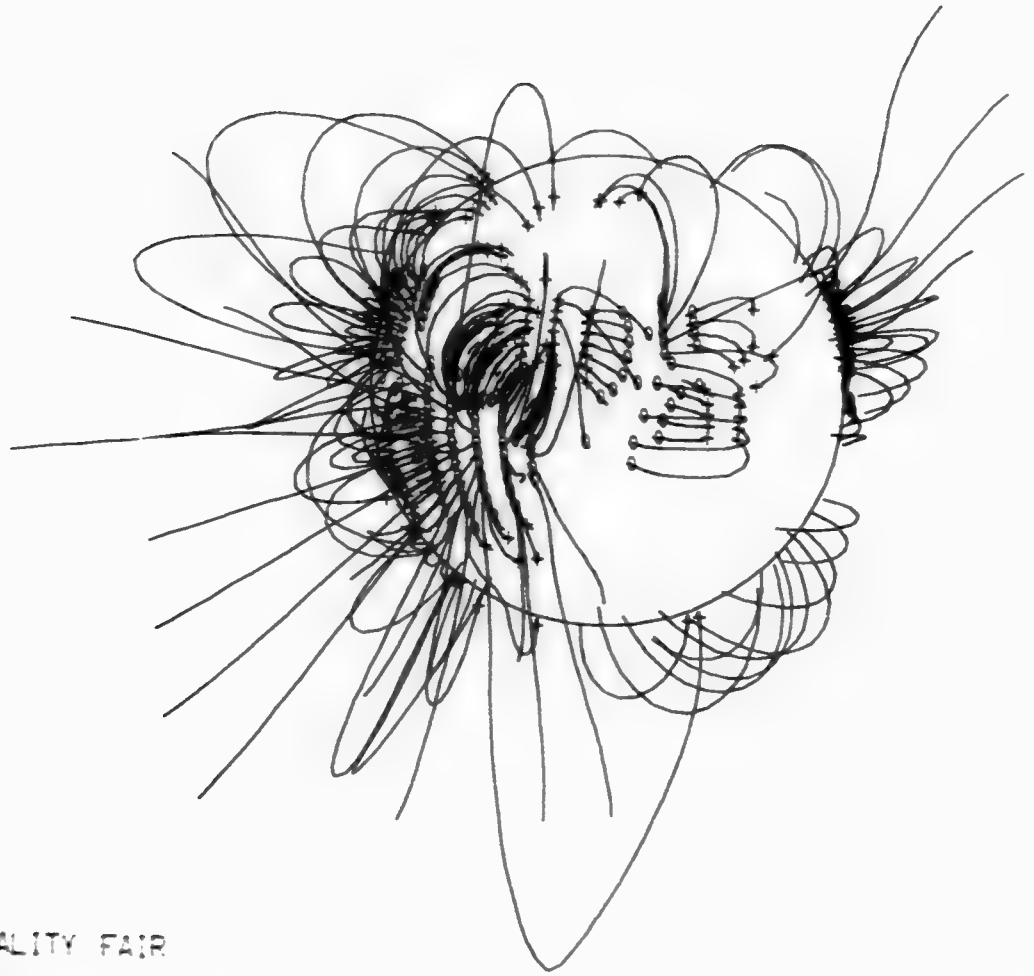
DATA WINDOW 1558.00

ROT. 1558 LONG. 15[illegible]°

[illegible] MAR 197[illegible]

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N



E

A

QUALITY FAIR

POLES DIRECT

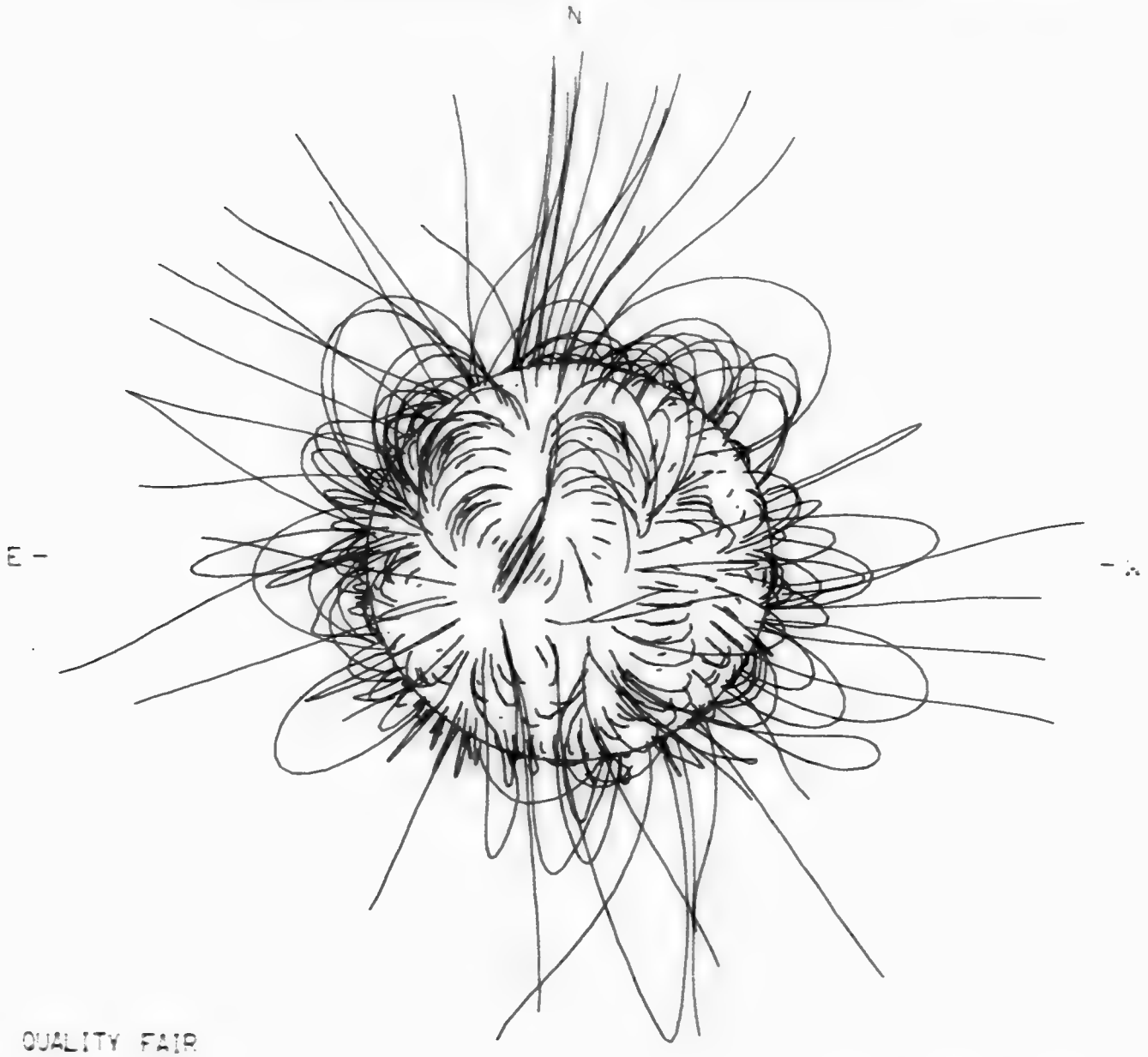
DATA WINDOW 1558.00

S

ROT. 1558 LONG. 150°

[illegible] MAR 197[illegible]

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



QUALITY FAIR

POLES DIRECT

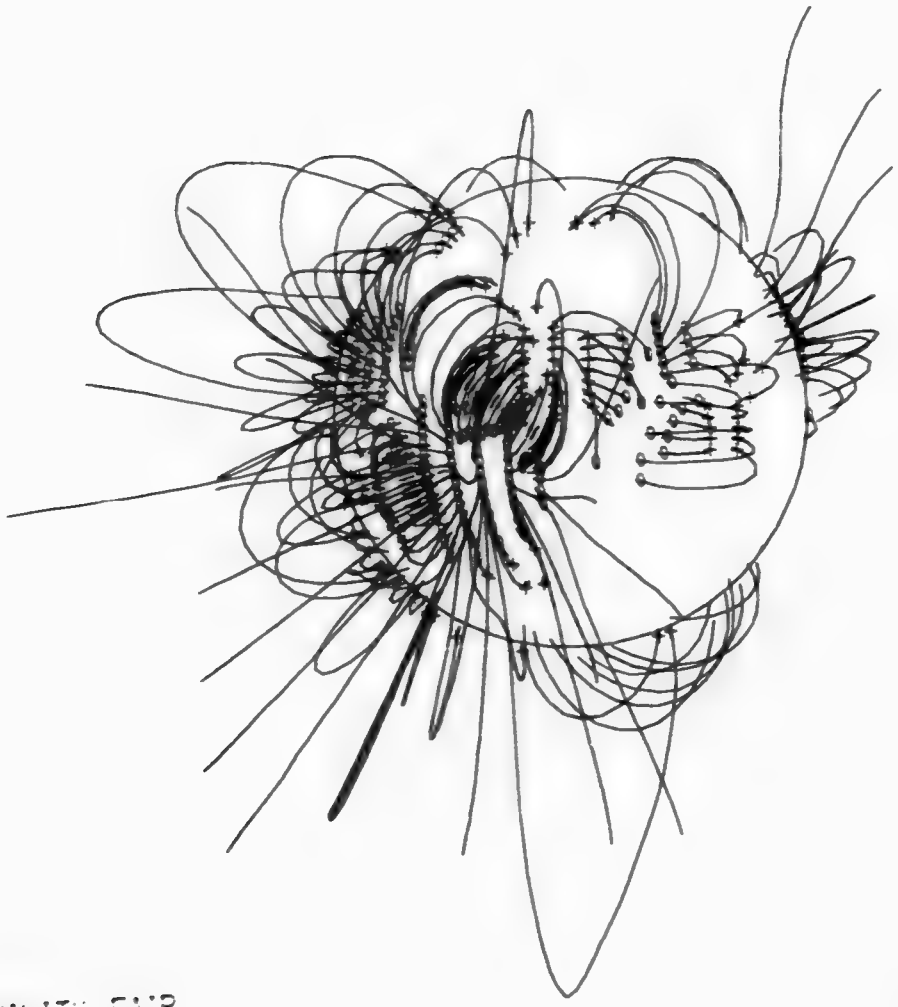
DATA WINDOW 1558.00

ROT. 1558 LONG. 12[illegible]°

[illegible].8 MAR 19[illegible]

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N



E -

- A

S

QUALITY FAIR

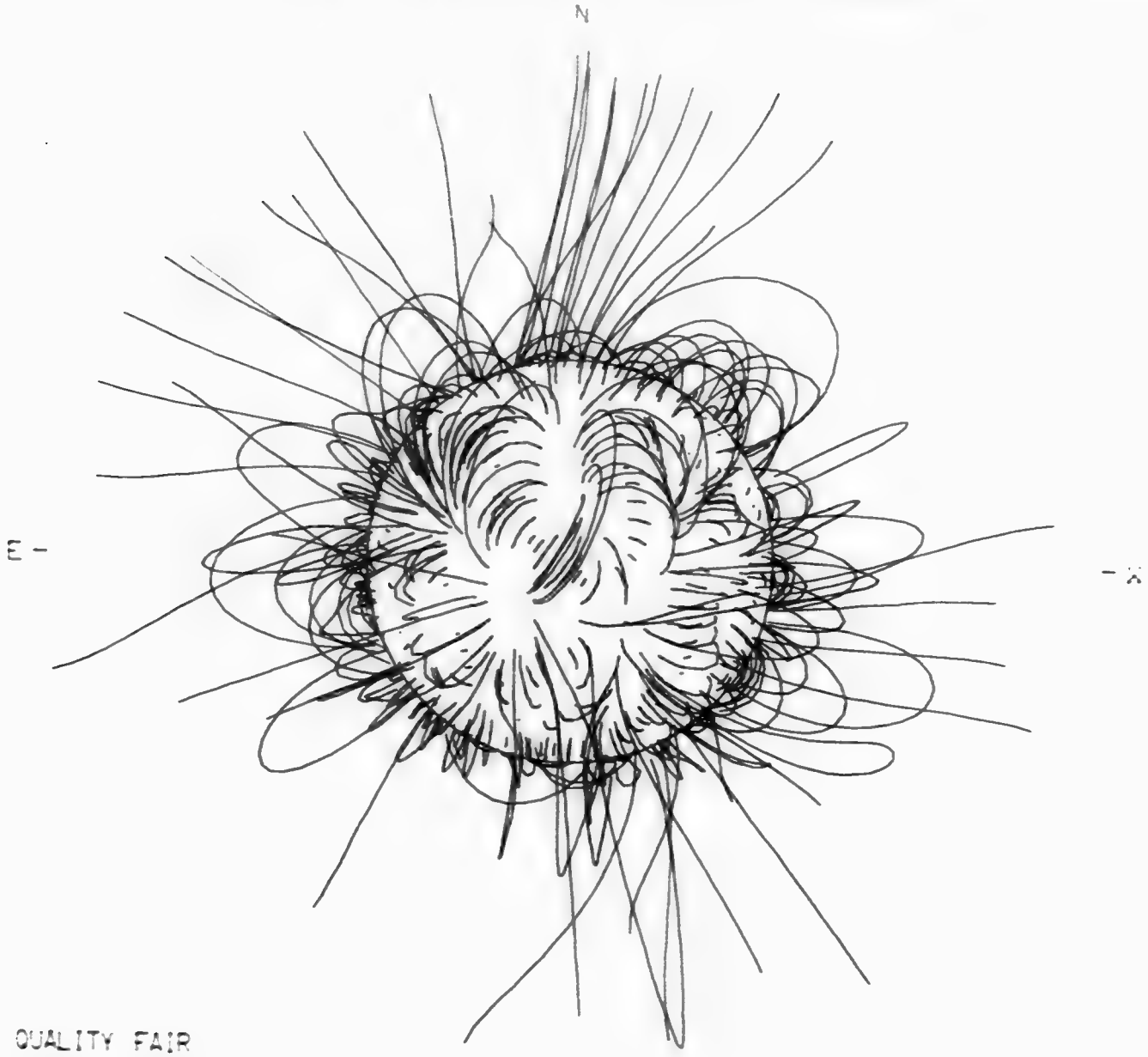
POLES DIRECT

DATA WINDOW 1558.00

ROT. 1558 LONG. 12[illegible]°

[illegible].8 MAR 197[illegible]

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



QUALITY FAIR

POLES DIRECT

DATA WINDOW 1558.00

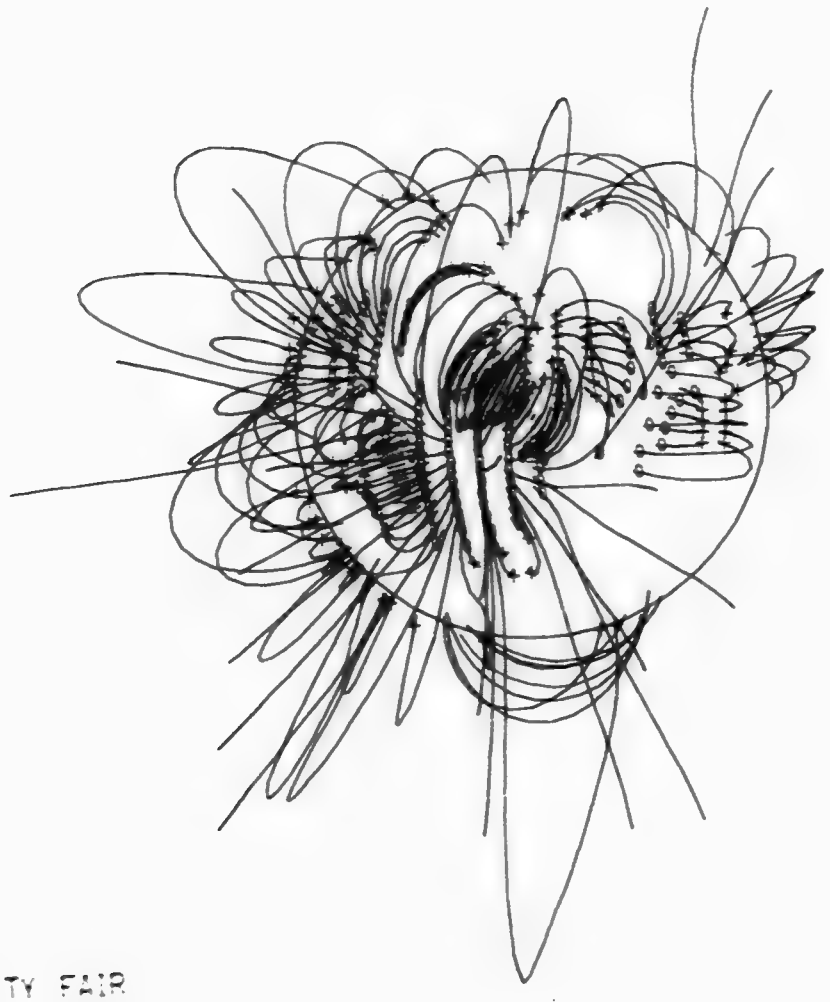
ROT. 1558 LONG. 11°

8.5 MAR 197[illegible]

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N

E –



– A

S

QUALITY FAIR

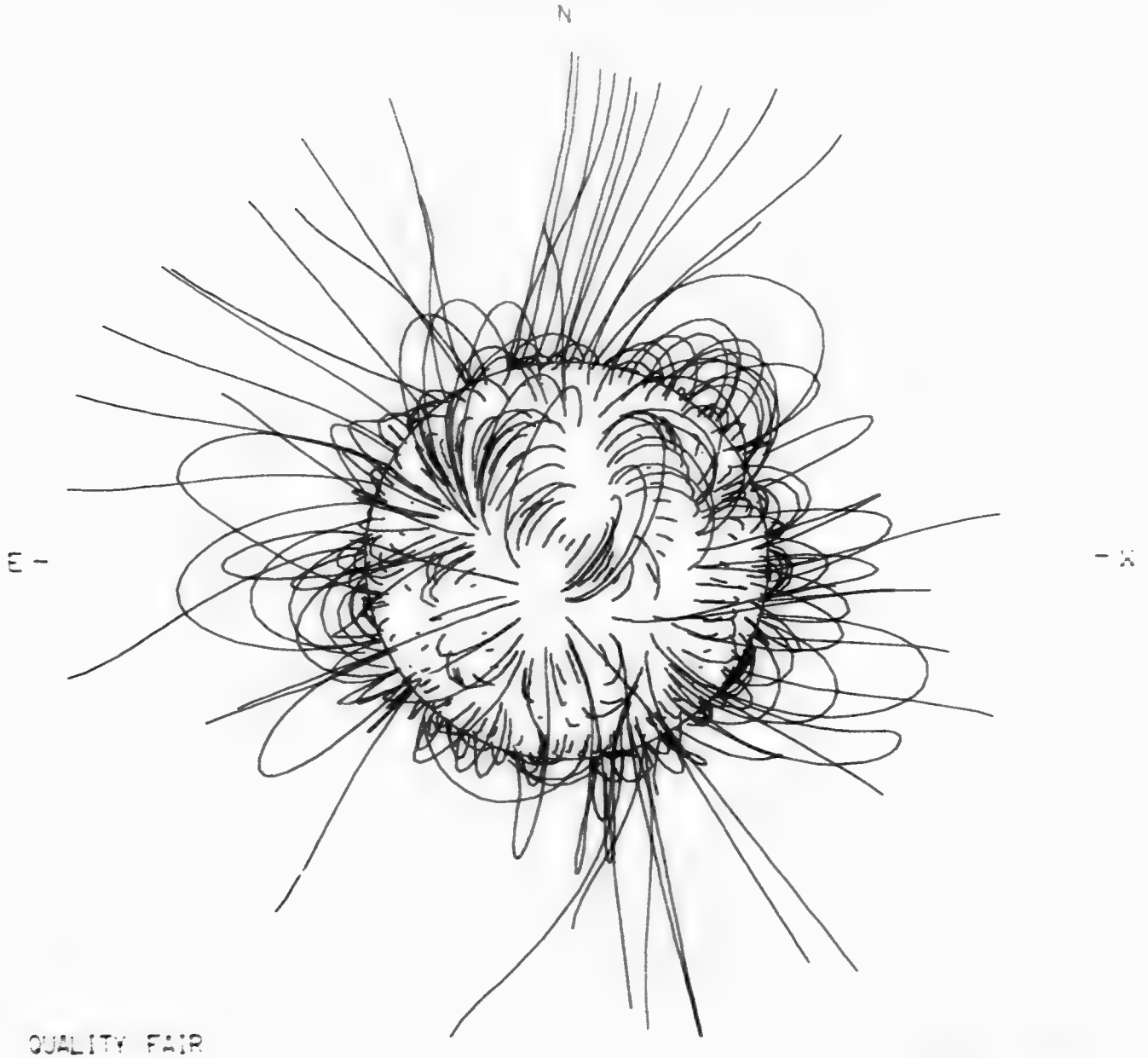
POLES DIRECT

DATA WINDOW 1558.00

ROT. 1558 LONG. 11[illegible]°

8.6 MAR 197[illegible]

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



QUALITY FAIR

POLES DIRECT

DATA WINDOW 1558.00

ROT. 1558 LONG. 1[illegible]°

9.5 MAR 197[illegible]

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N

E –

– A

S

QUALITY FAIR

POLES DIRECT

DATA WINDOW 1558.00

ROT. 1558 LONG. 1[illegible]°

9.3 MAR 197[illegible]

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N

E

S

QUALITY FAIR

POLES DIRECT

DATA WINDOW 1558.00

ROT. 1558 LONG. 90°

10.1 MAR 197[illegible]

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N

E –

– A

S

QUALITY FAIR

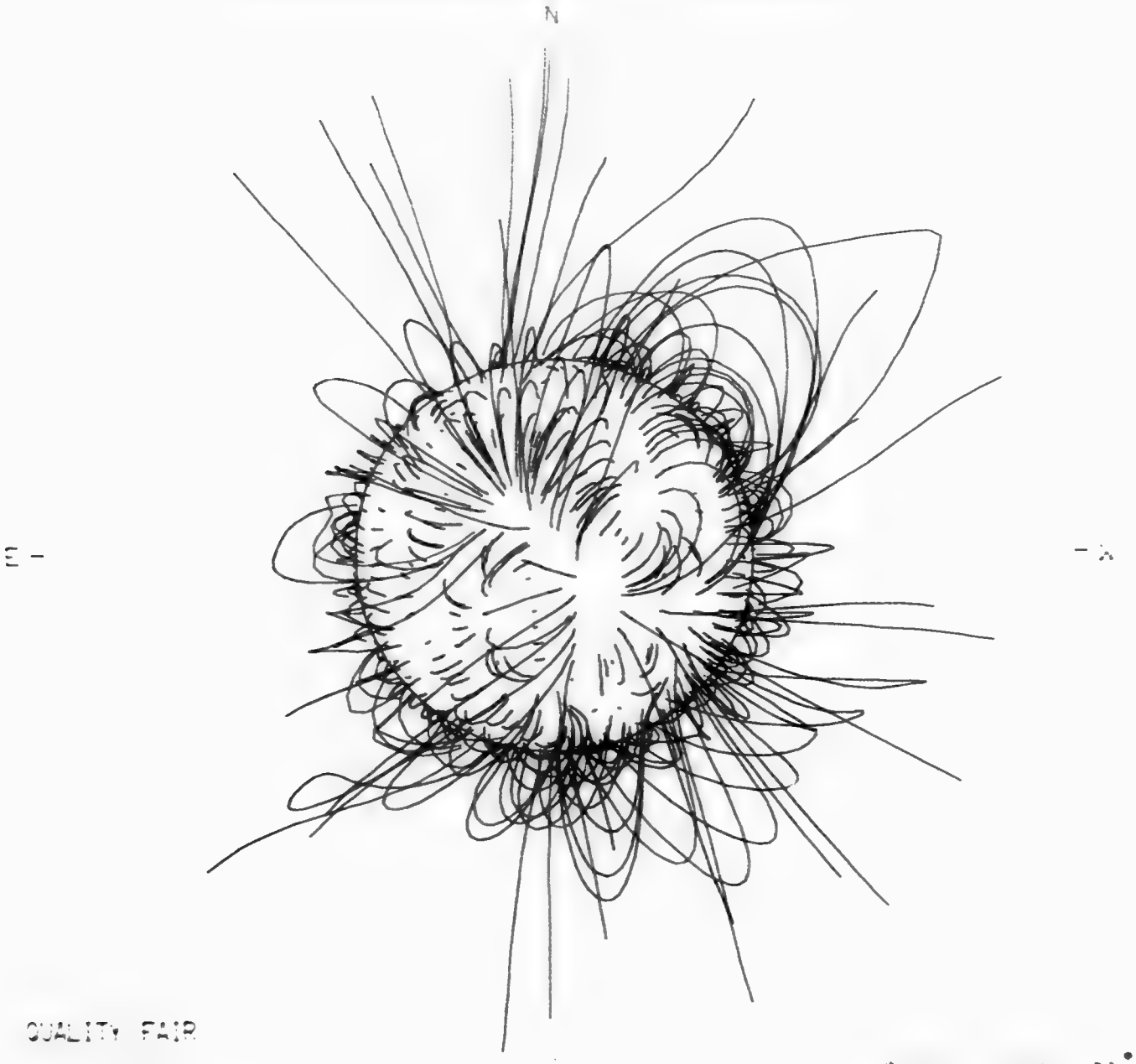
POLES DIRECT

DATA WINDOW 1558.00

ROT. 1558 LONG. 93°

10.1 MAR 197[illegible]

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



QUALITY FAIR

POLES DIRECT

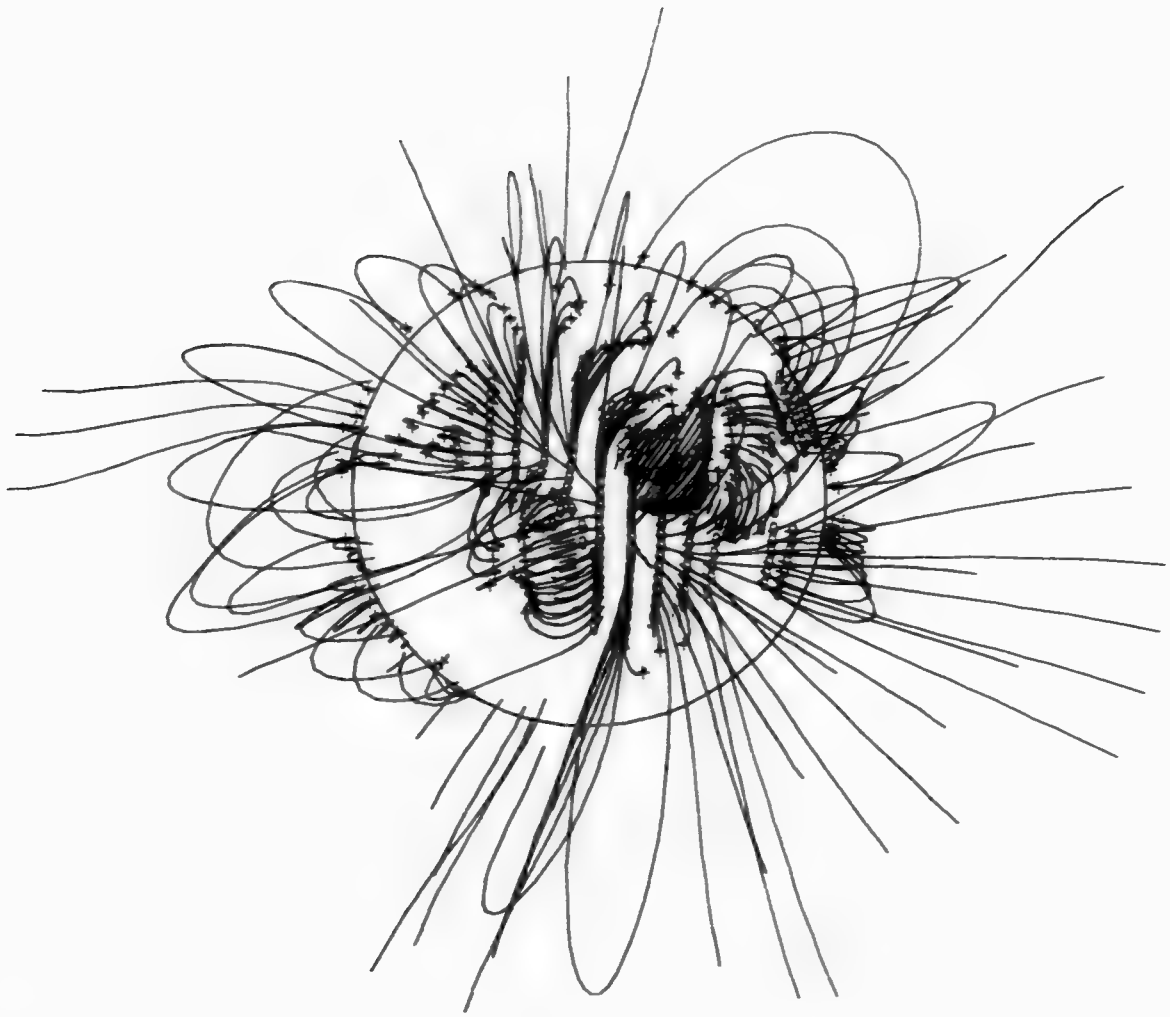
DATA WINDOW 1558.47

ROT. 1558 LONG. 51°

10.8 MAR 1971

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N



E

W

S

QUALITY FAIR

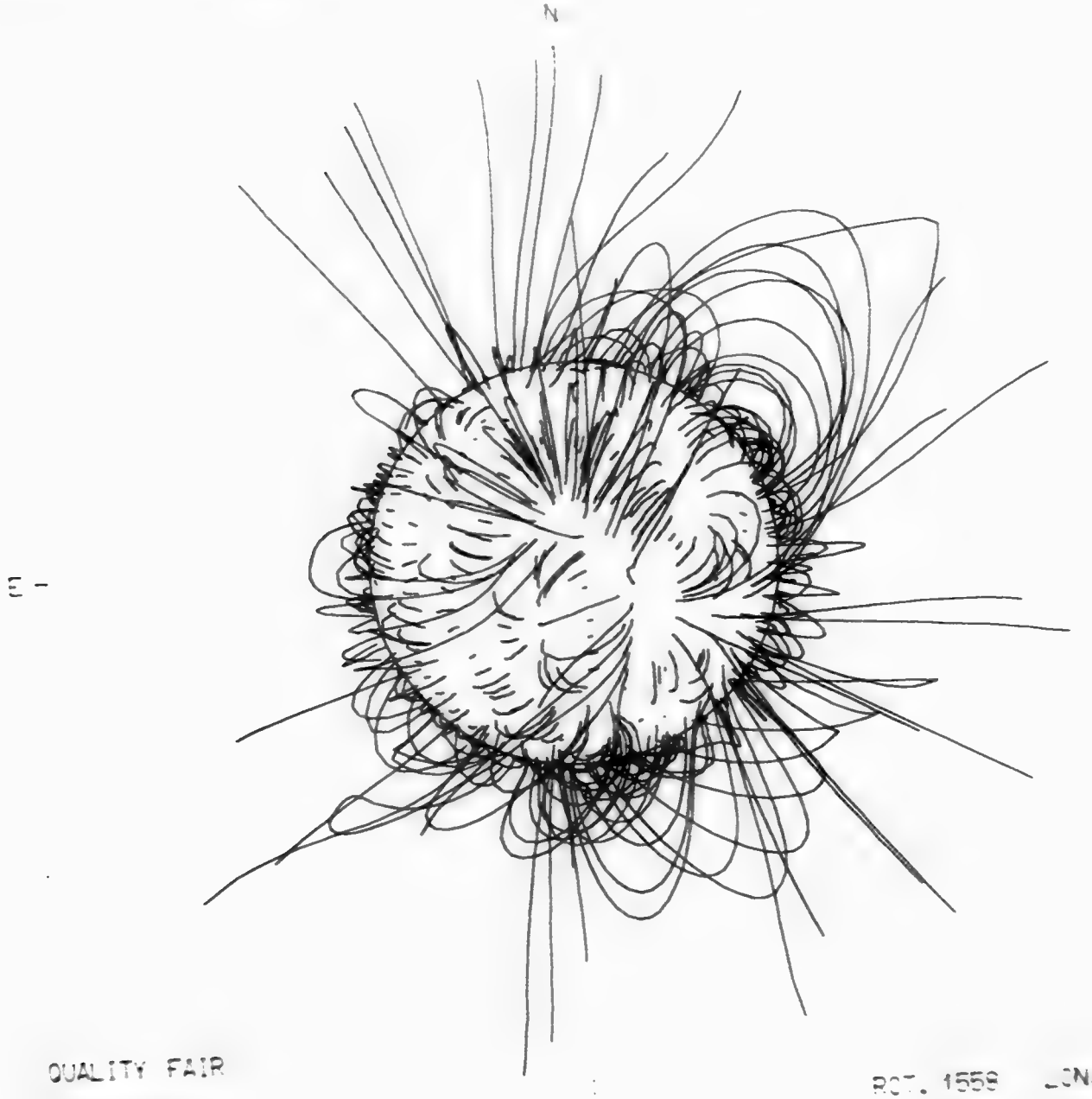
POLES DIRECT

DATA WINDOW 1558.47

ROT. 1558 LONG. 8[illegible]°

10.8 MAR 197[illegible]

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

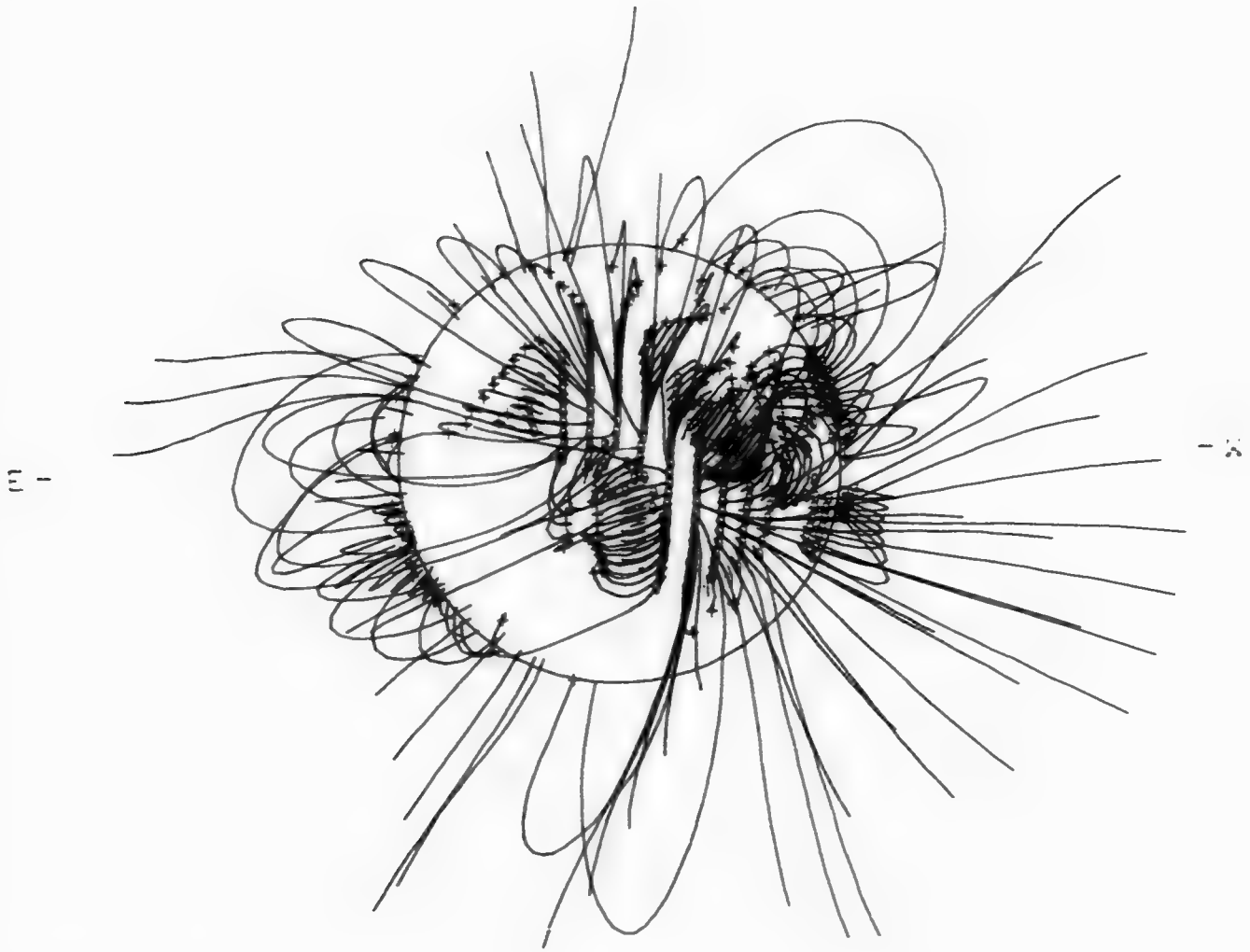


QUALITY FAIR
POLES DIRECT
DATA WINDOW 1558.47

ROT. 1559 LONG.
11.6 MAR 197

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N



E

A

S

QUALITY FAIR

POLES DIRECT

DATA WINDOW 1558.47

ROT. 1558 LONG. [illegible]°

11.6 MAR 197[illegible]

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

QUALITY FAIR

POLES DIRECT

DATA WINDOW 1558.47

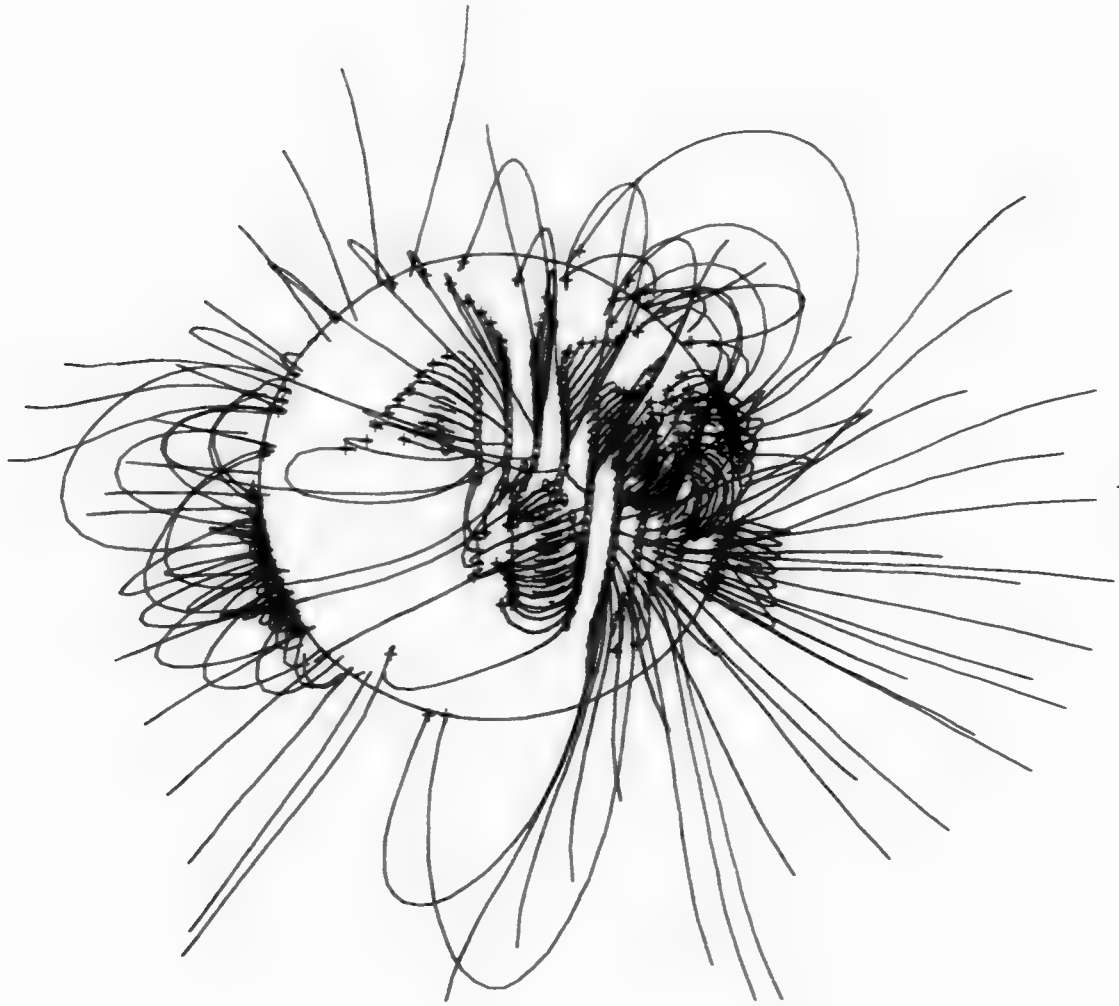
ROT. 1558 LONG. 6[illegible]°

12.4 MAR 197[illegible]

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N

E -



S

QUALITY FAIR

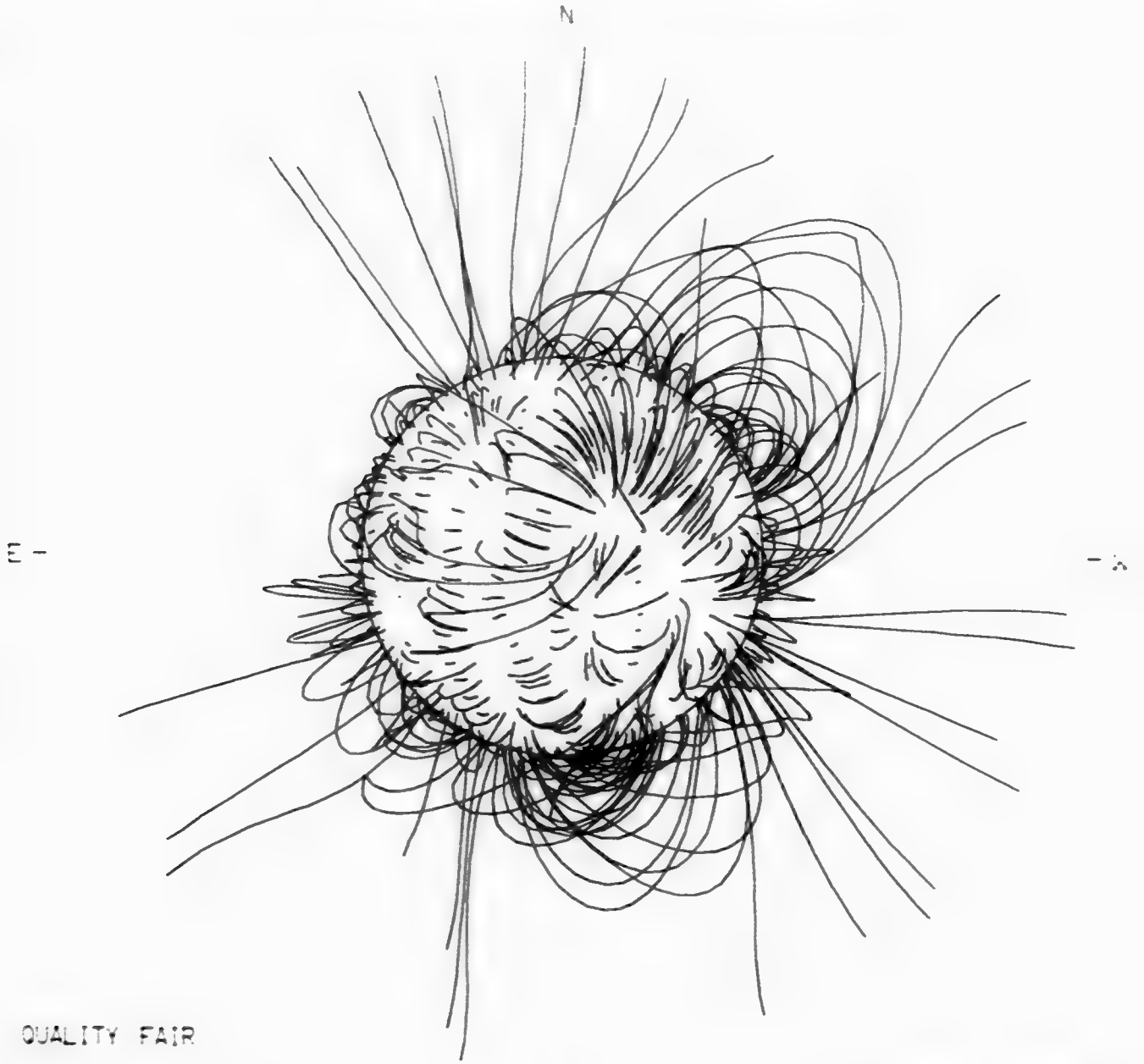
POLES DIRECT

DATA WINDOW 1558.47

ROT. 1558 LONG. 60°

12.2 MAR 1970

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



QUALITY FAIR

POLES DIRECT

DATA WINDOW 1558.47

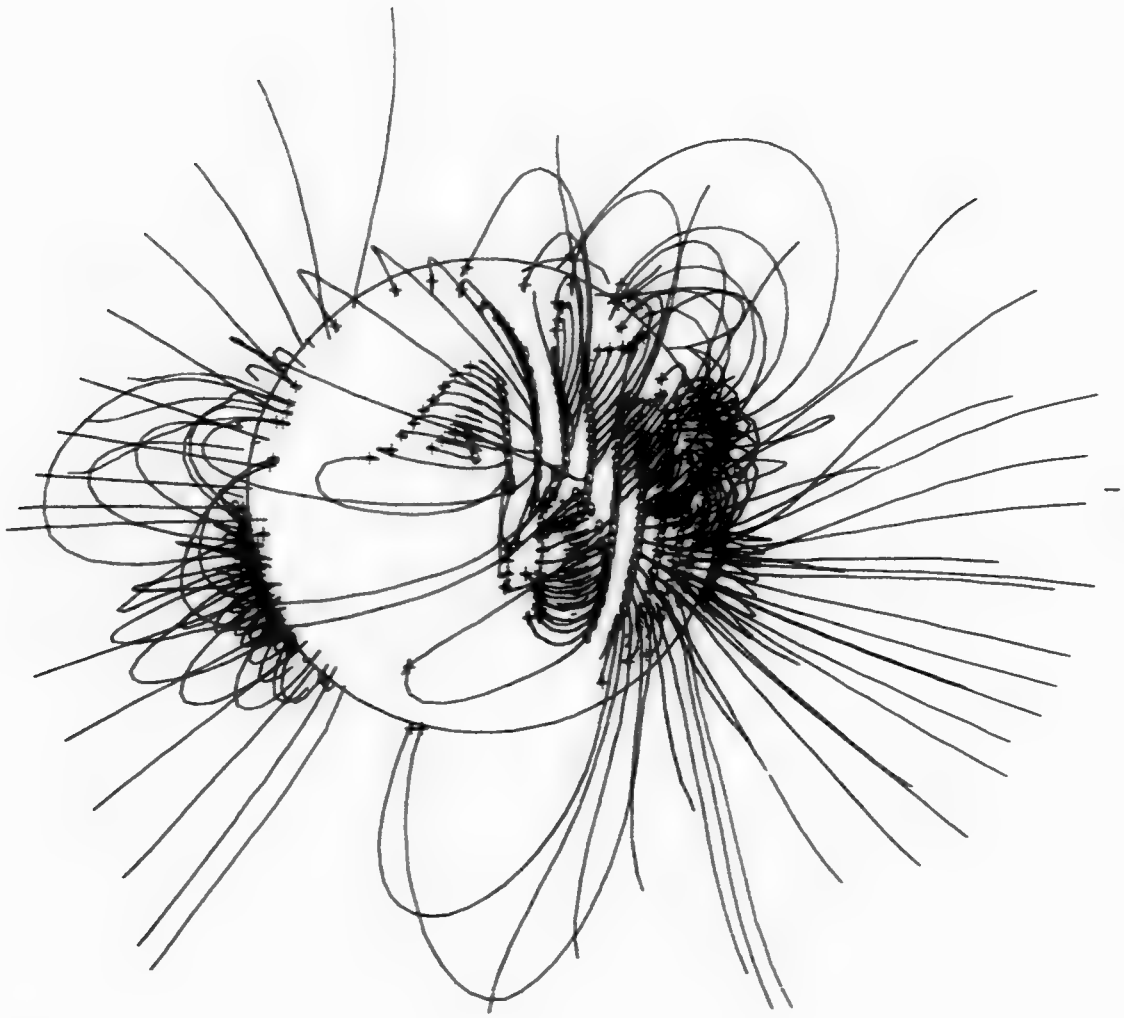
ROT. 1558 LONG. 51°

13.1 MAR 1970

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N

E -



- A

S

QUALITY FAIR

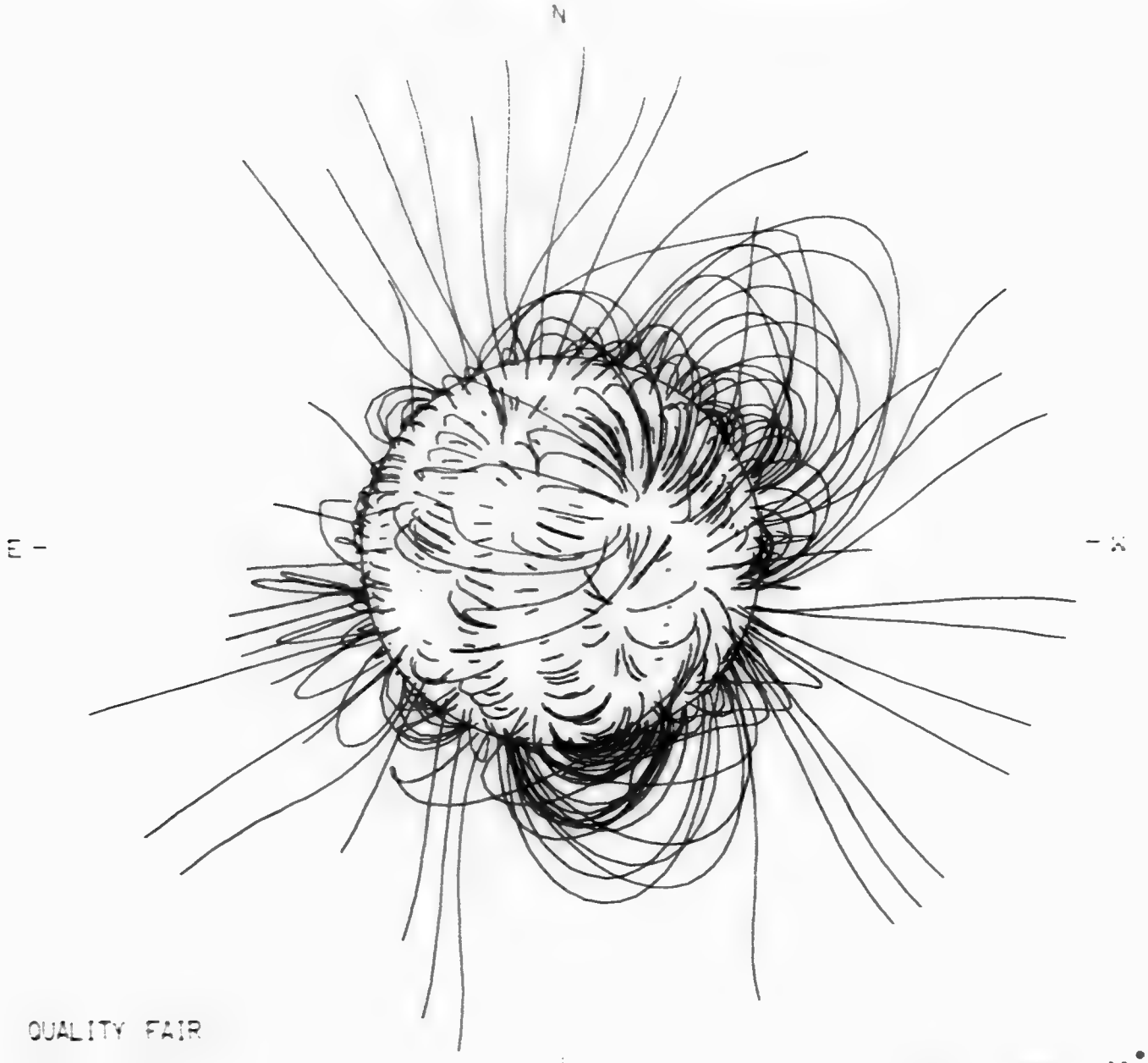
POLES DIRECT

DATA WINDOW 1558.47

ROT. 1558 LONG. 5[illegible]°

13.1 MAR 197[illegible]

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



QUALITY FAIR

POLES DIRECT

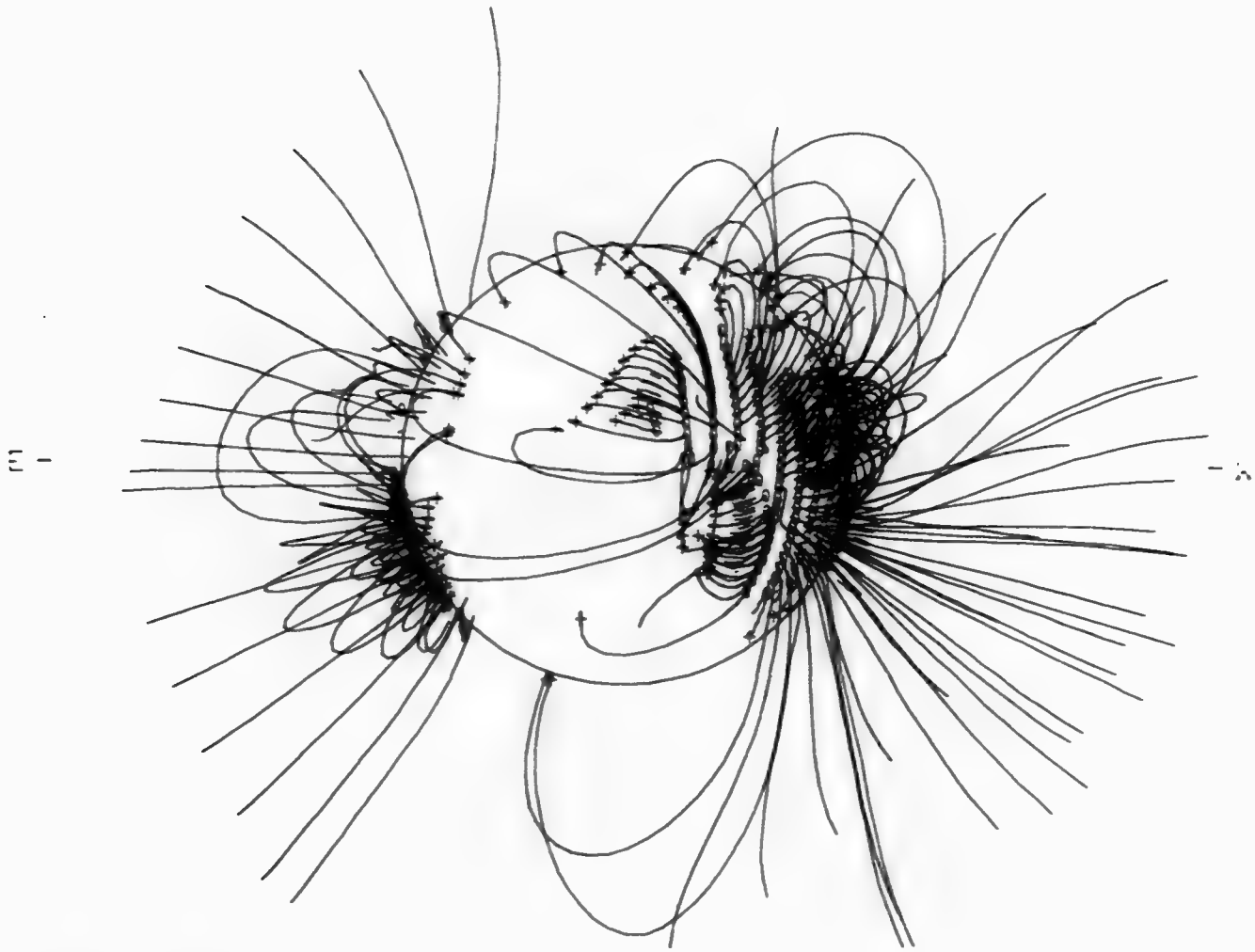
DATA WINDOW 1558.47

ROT. 1558 LONG. 20°

15.9 MAR 1970

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N



QUALITY FAIR

POLES DIRECT

DATA WINDOW 1558.47

S

ROT. 1558 LONG. 2[illegible]°

13.9 MAR 197[illegible]

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

QUALITY FAIR

POLES DIRECT

DATA WINDOW 1558.47

ROT. 1558 LONG. 5[illegible]°

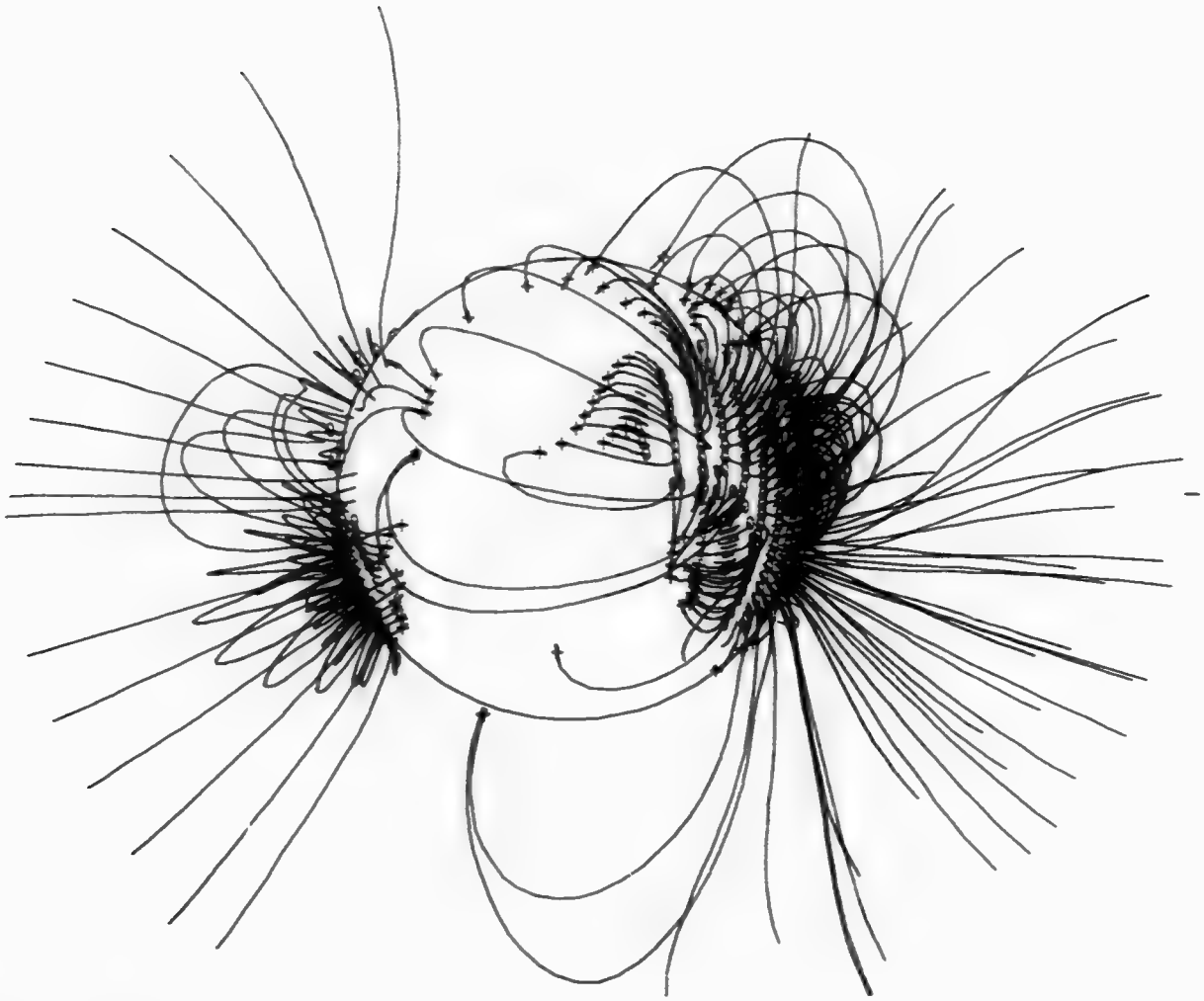
12.6 MAR 197[illegible]

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N

E

W



S

QUALITY FAIR

POLES DIRECT

DATA WINDOW 1558.47

ROT. 1558 LONG. 5[illegible]°

14.6 MAR 19[illegible]

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N

E

S

QUALITY FAIR

POLES DIRECT

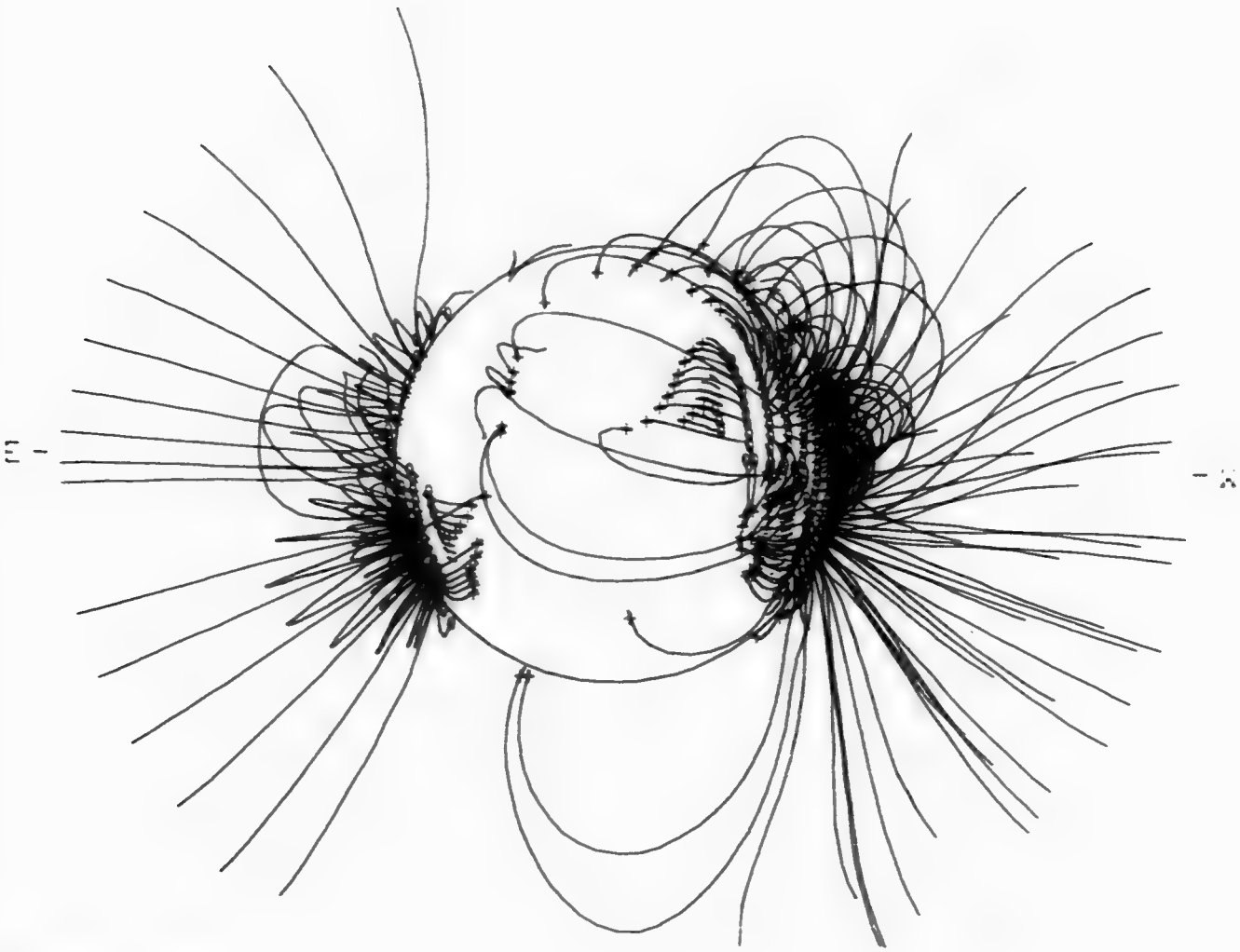
DATA WINDOW 1558.47

ROT. 1558 LONG. 0°

15.4 MAR 1971

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N



QUALITY FAIR

POLES DIRECT

DATA WINDOW 1558.47

S

ROT. 1558 LONG. 2[illegible]°

15.2 MLR 19[illegible]

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

QUALITY FAIR

POLES DIRECT

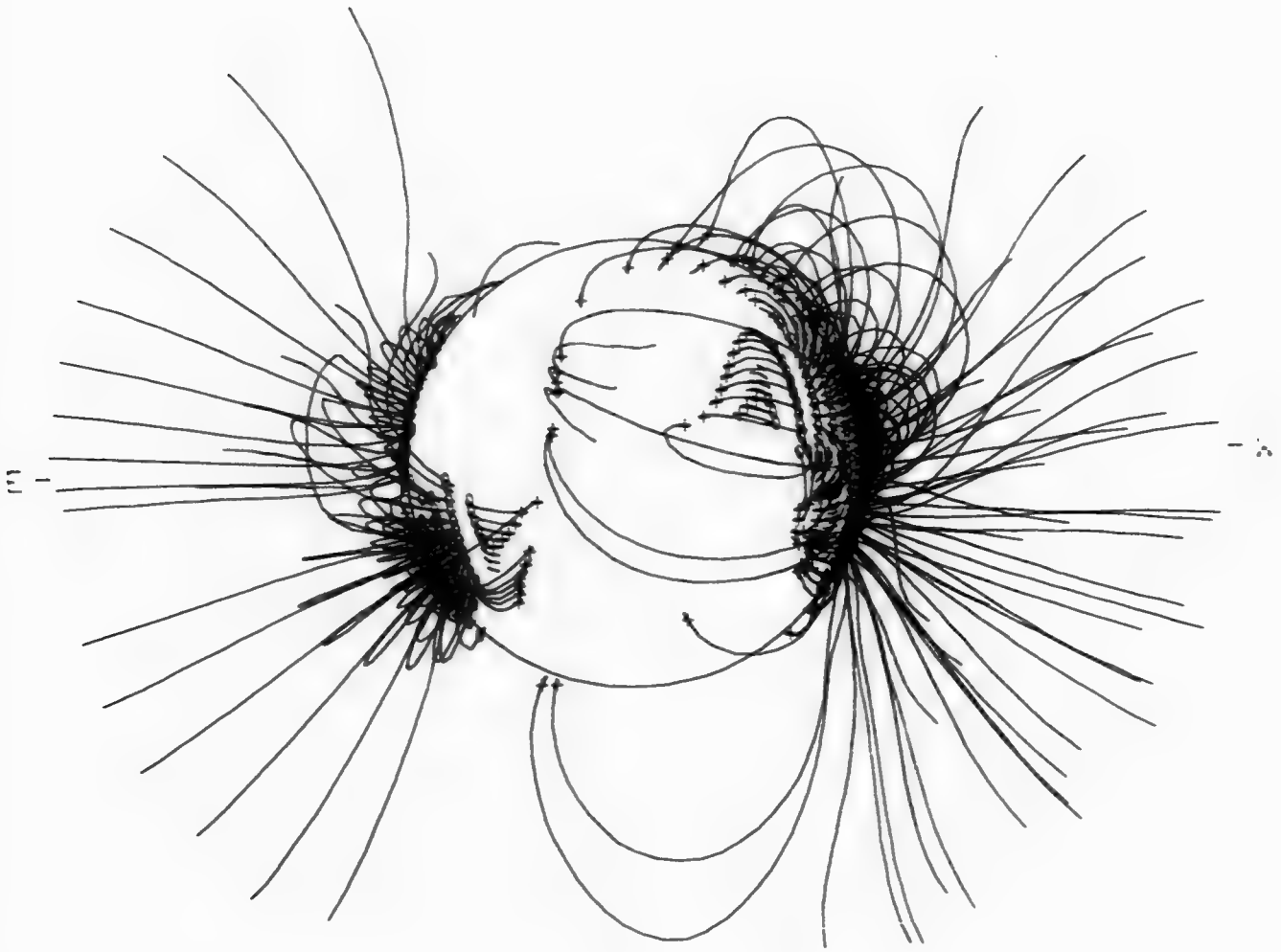
DATA WINDOW 1558.47

ROT. 1559 LONG. 1[illegible]°

16.2 MAR 197[illegible]

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N



E

A

S

QUALITY FAIR

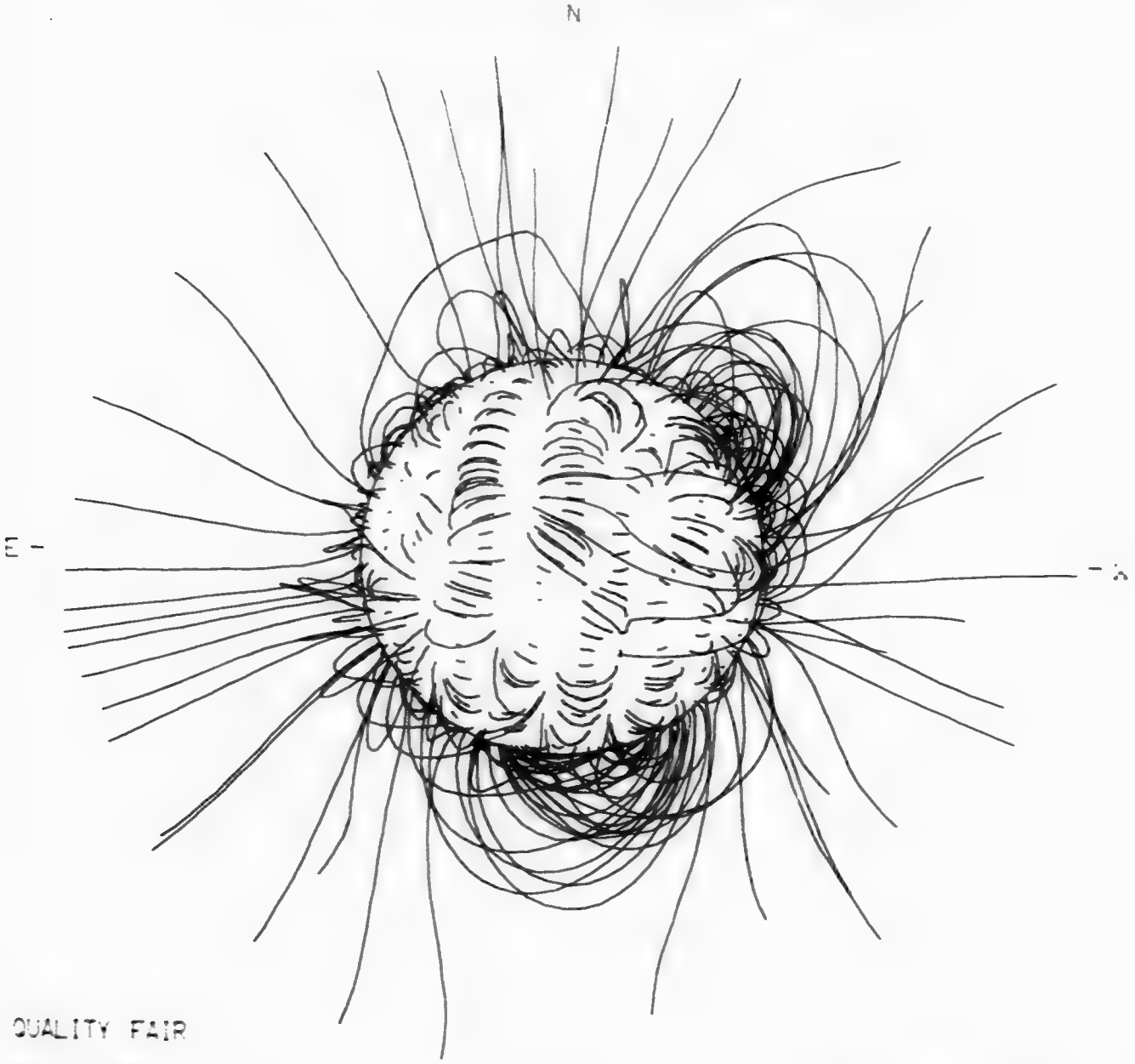
POLES DIRECT

DATA WINDOW 1558.47

ROT. 1558 LONG. 1[illegible]°

16.2 MAR 197[illegible]

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



QUALITY FAIR

POLES DIRECT

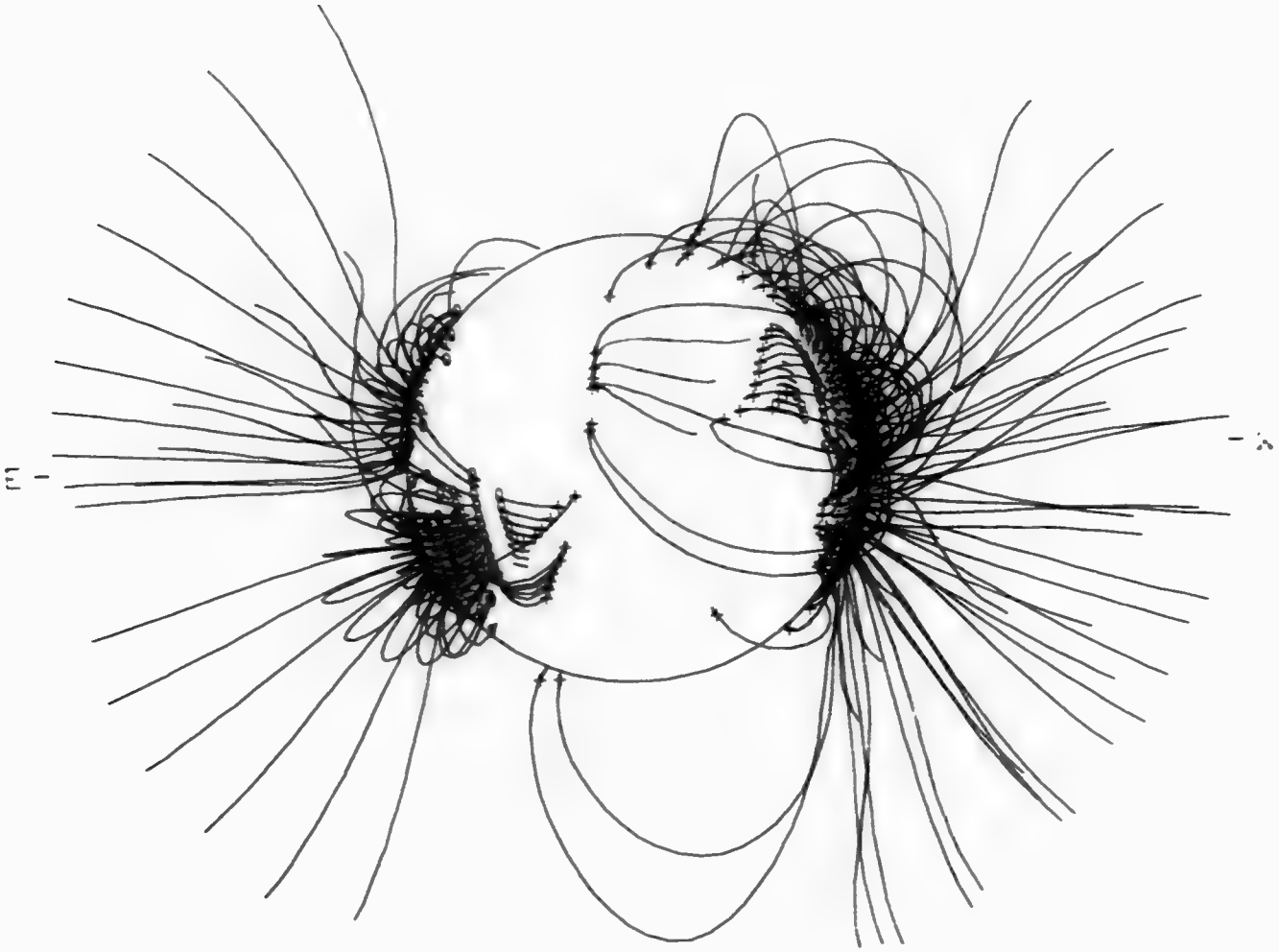
DATA WINDOW 1558.47

ROT. 1558 LONG.

15.9 MAR 197

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N



E

QUALITY FAIR

POLES DIRECT

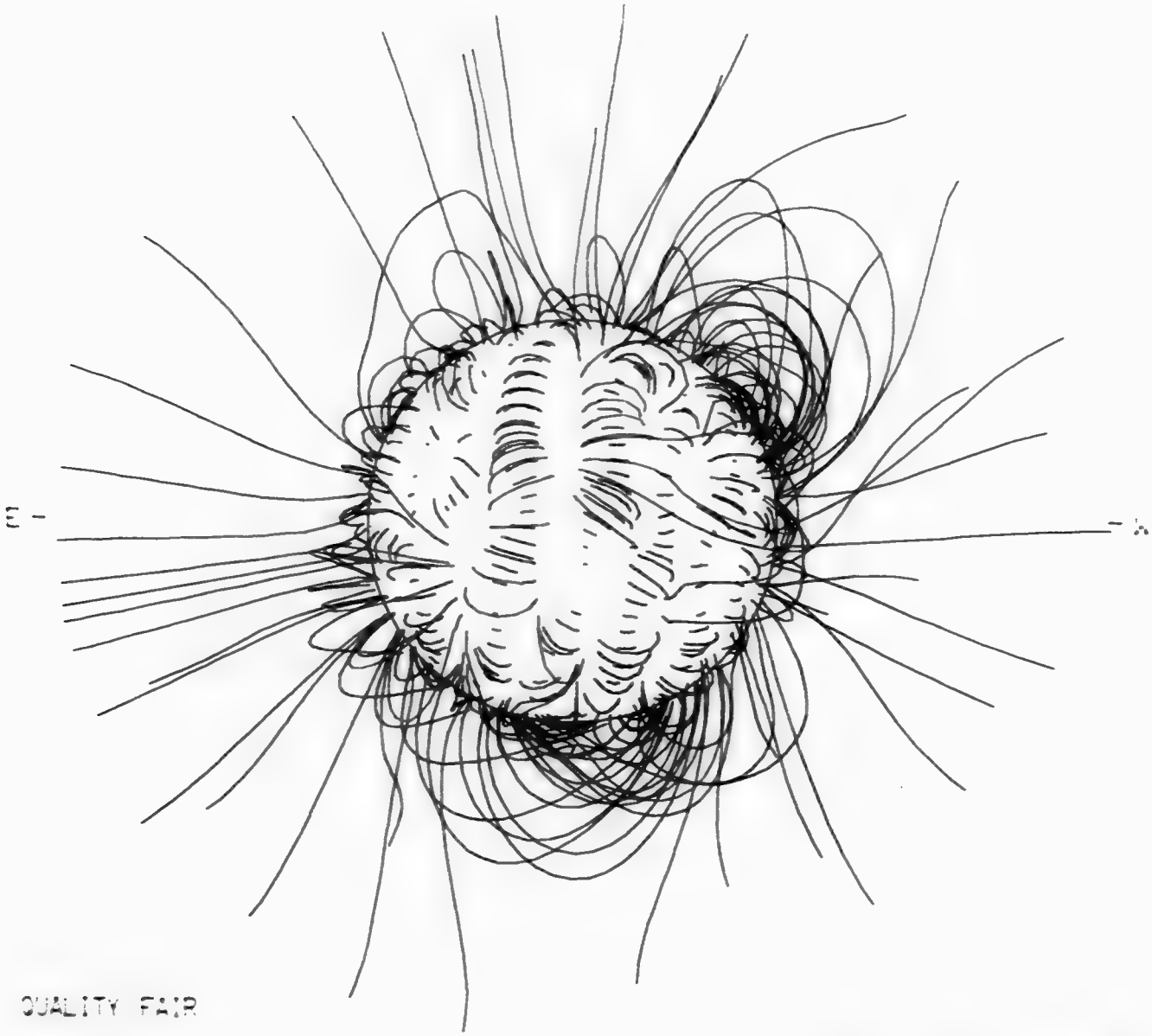
DATA WINDOW 1558.47

S

ROT. 1558 LONG.

16.9 MAR 19

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



QUALITY FAIR

POLES DIRECT

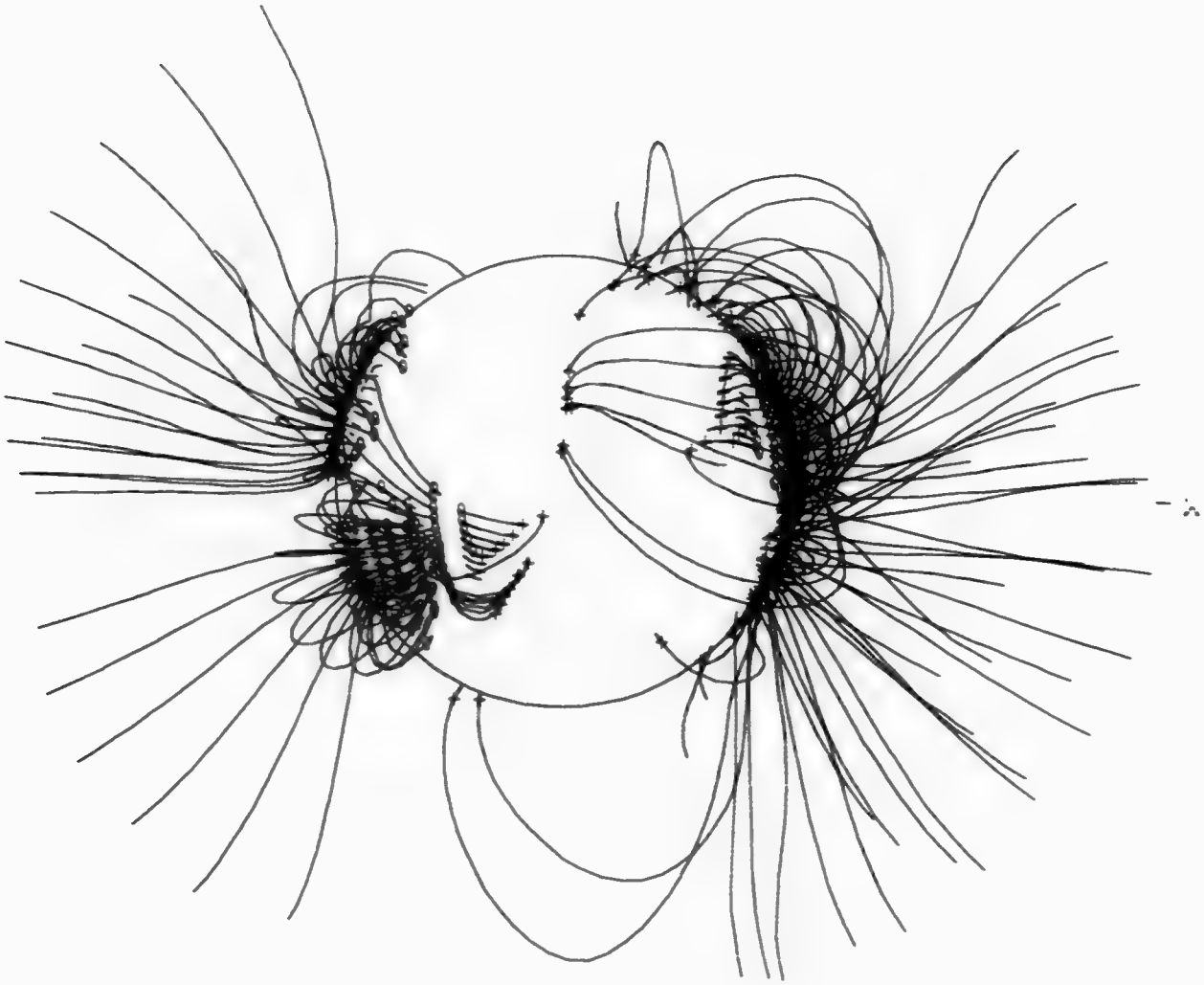
DATA WINDOW 1558.47

ROT. 1559 LONG. 351°

17 MAR 1971

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N



E

A

QUALITY FAIR

POLES DIRECT

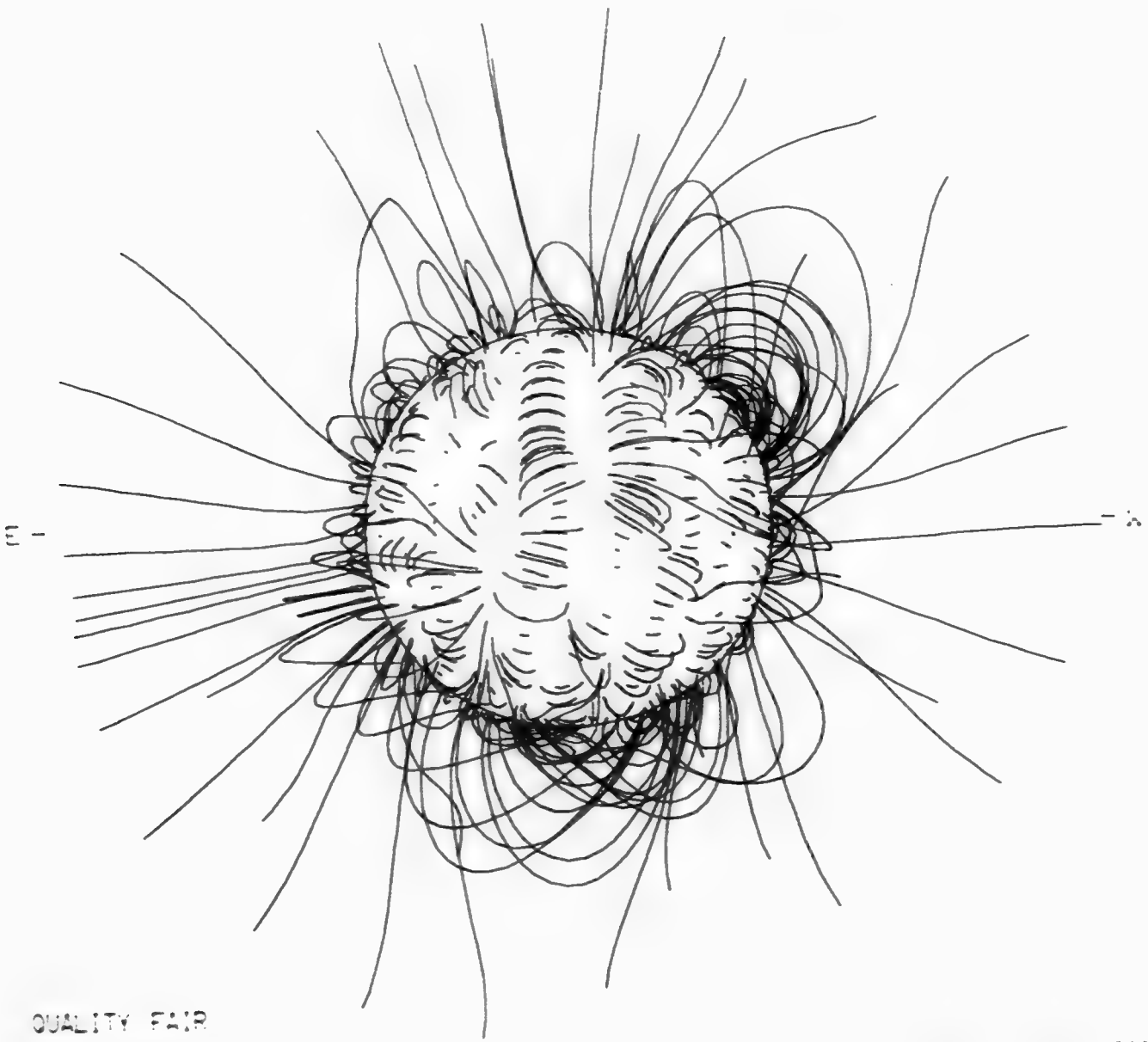
DATA WINDOW 1558.47

S

ROT. 1559 LONG. 55°

17.7 MAR 197

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



QUALITY FAIR

POLES DIRECT

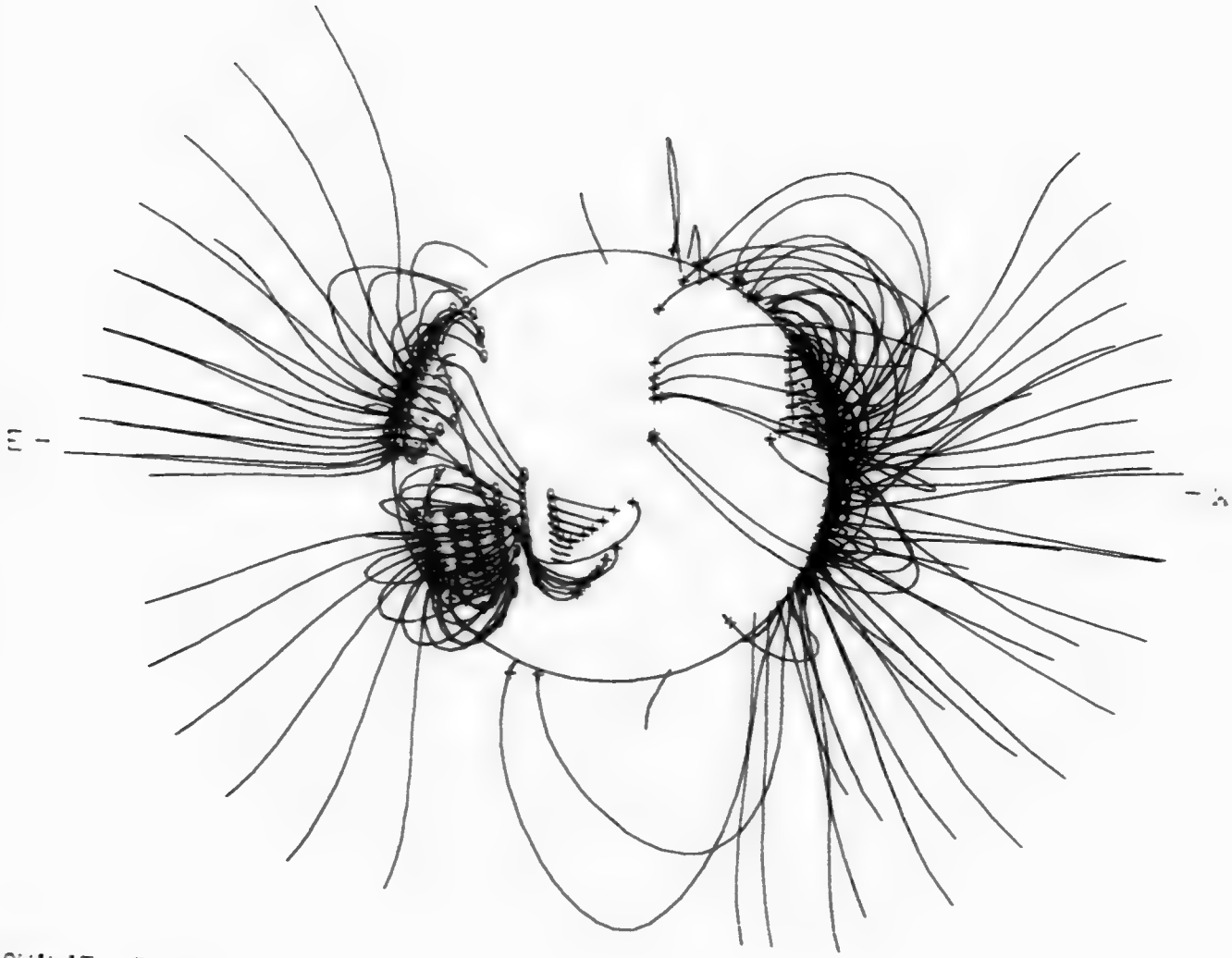
DATA WINDOW 1558.47

ROT. 1559 LONG. 3[illegible]°

18.2 MAR 197[illegible]

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N



QUALITY FAIR

POLES DIRECT

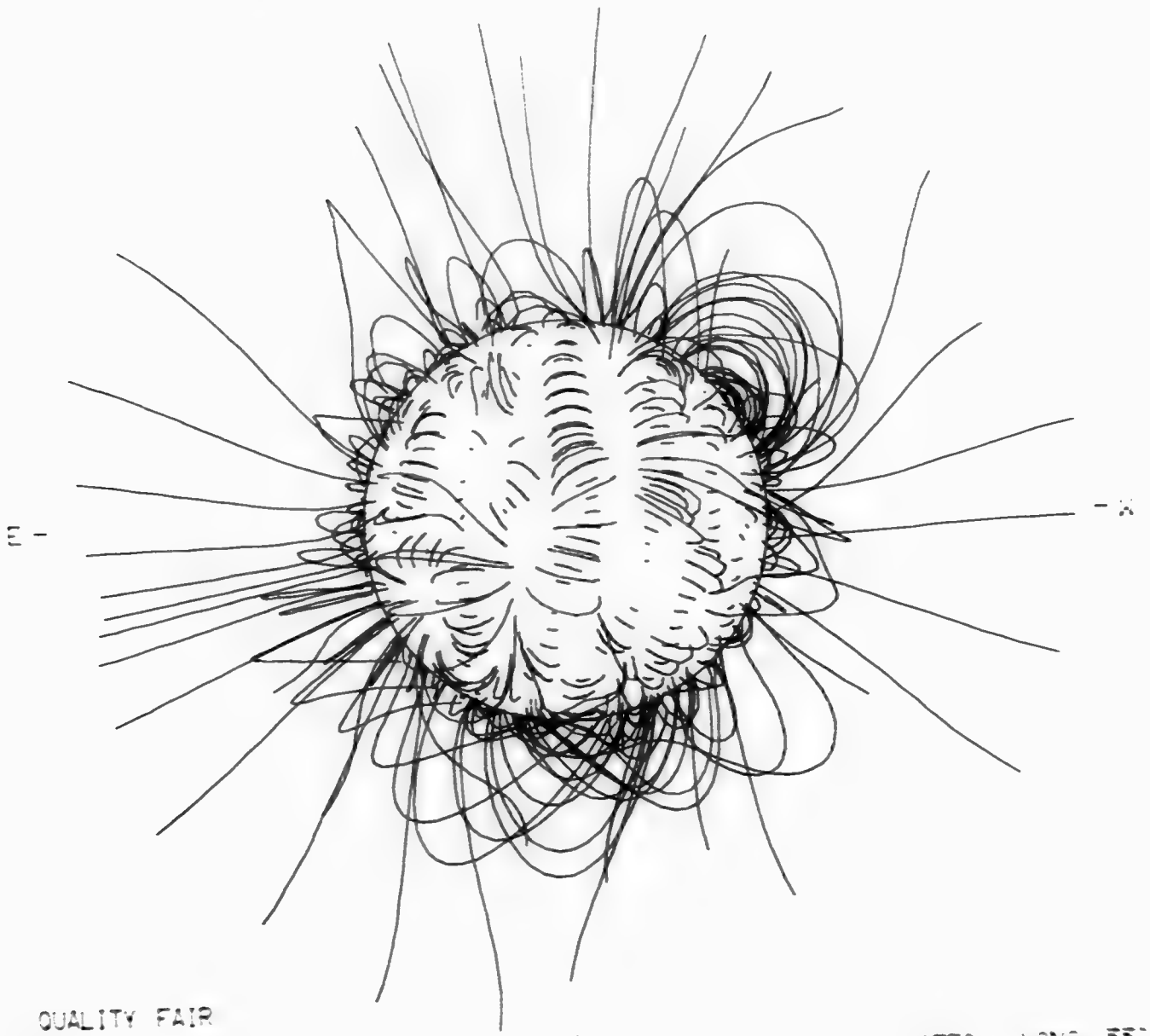
DATA WINDOW 1558.47

S

ROT. 1559 LONG. 300°

18.2 MAR 197[illegible]

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

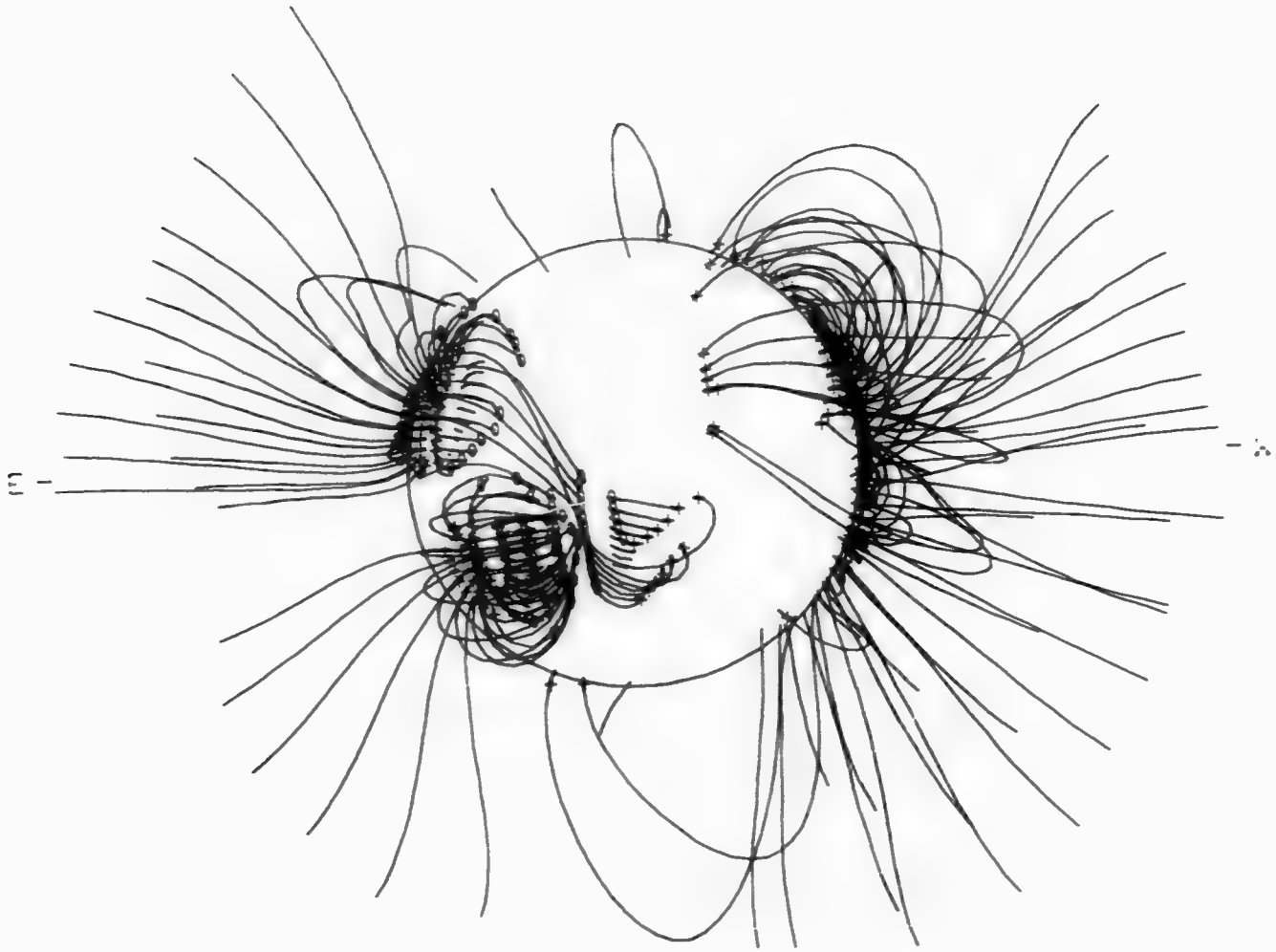


QUALITY FAIR
POLES DIRECT
DATA WINDOW 1558.47

ROT. 1559 LONG. 55[illegible]
19.2 MAR 197[illegible]

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N



QUALITY FAIR

POLES DIRECT

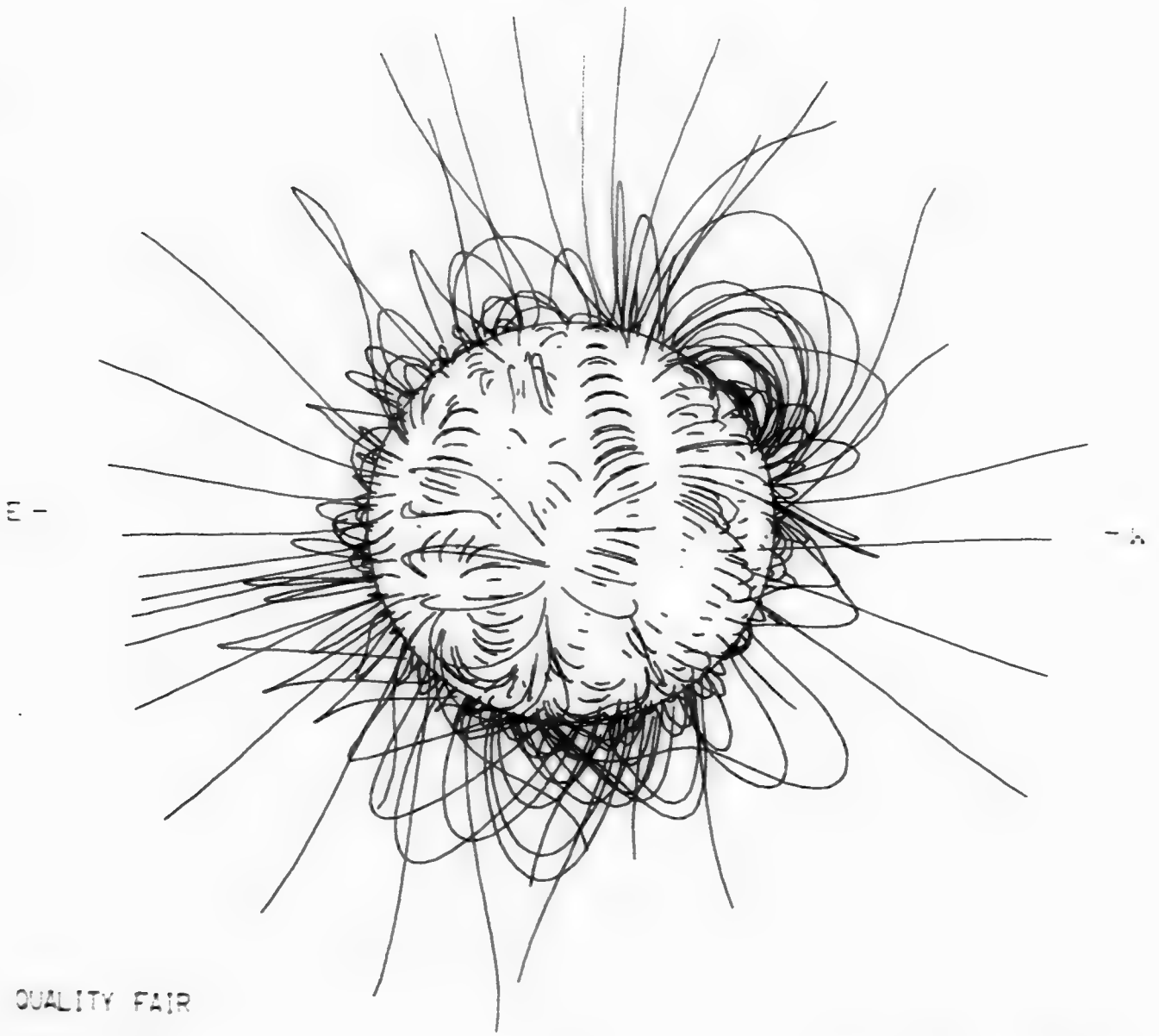
DATA WINDOW 1558.47

S

ROT. 1559 LONG. 55°

19.2 MAR 197

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



QUALITY FAIR

POLES DIRECT

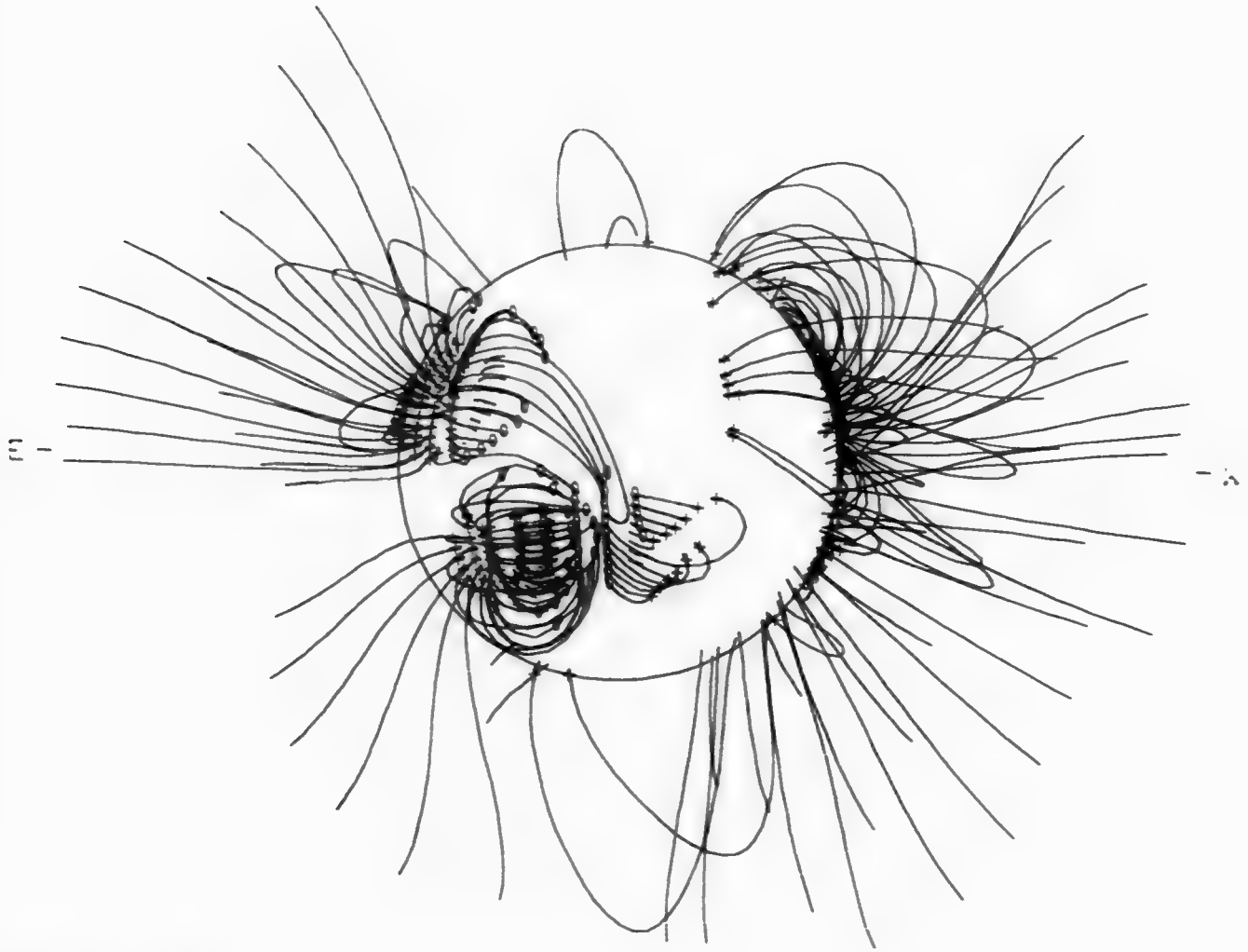
DATA WINDOW 1558.47

ROT. 1559 LONG. 3[illegible]°

19.9 MAR 197[illegible]

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N



E

A

S

QUALITY FAIR

POLES DIRECT

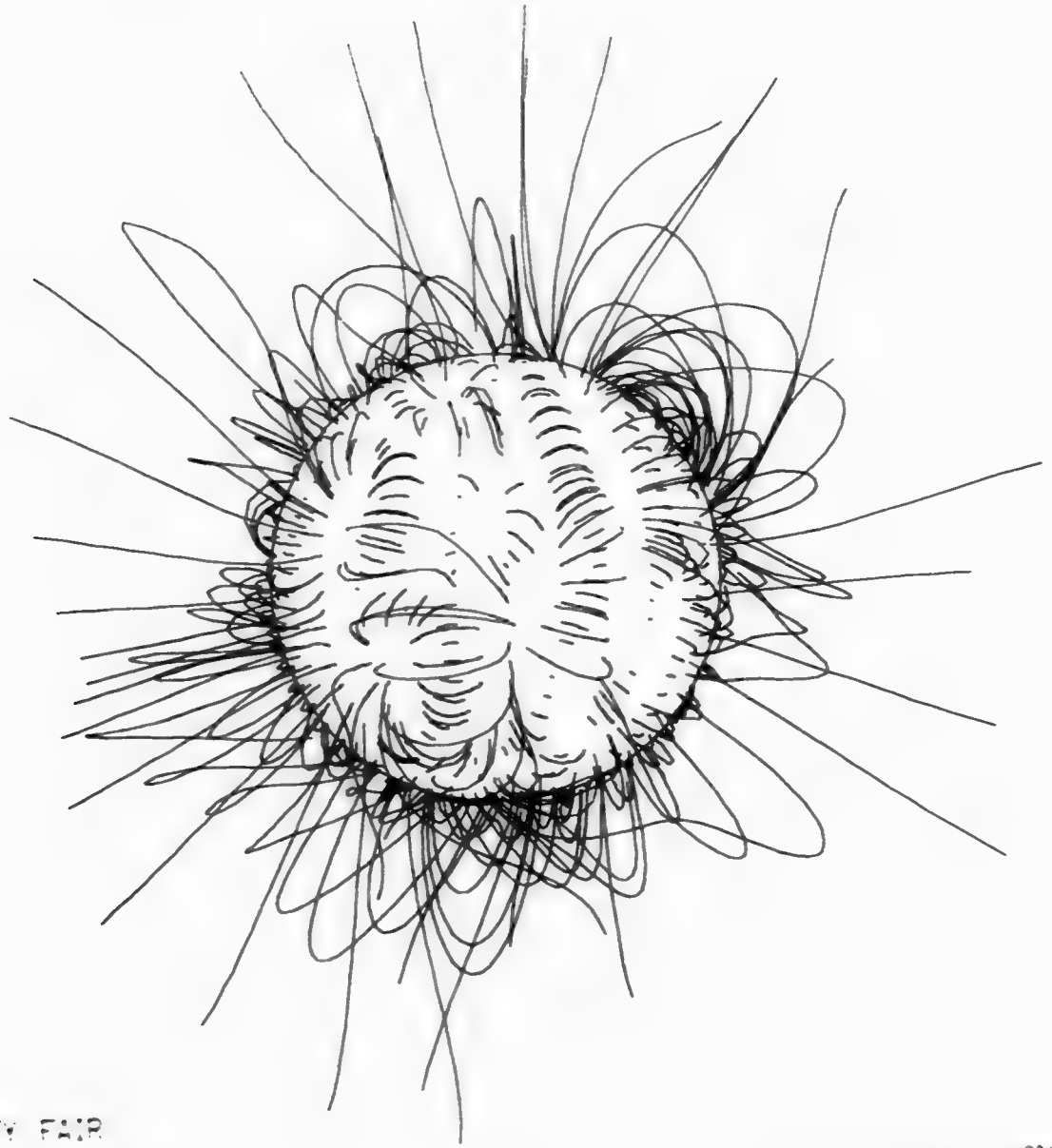
DATA WINDOW 1558.47

ROT. 1559 LONG. 5[illegible]°

19.9 MAR 197[illegible]

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N



E

A

S

QUALITY FAIR

POLES DIRECT

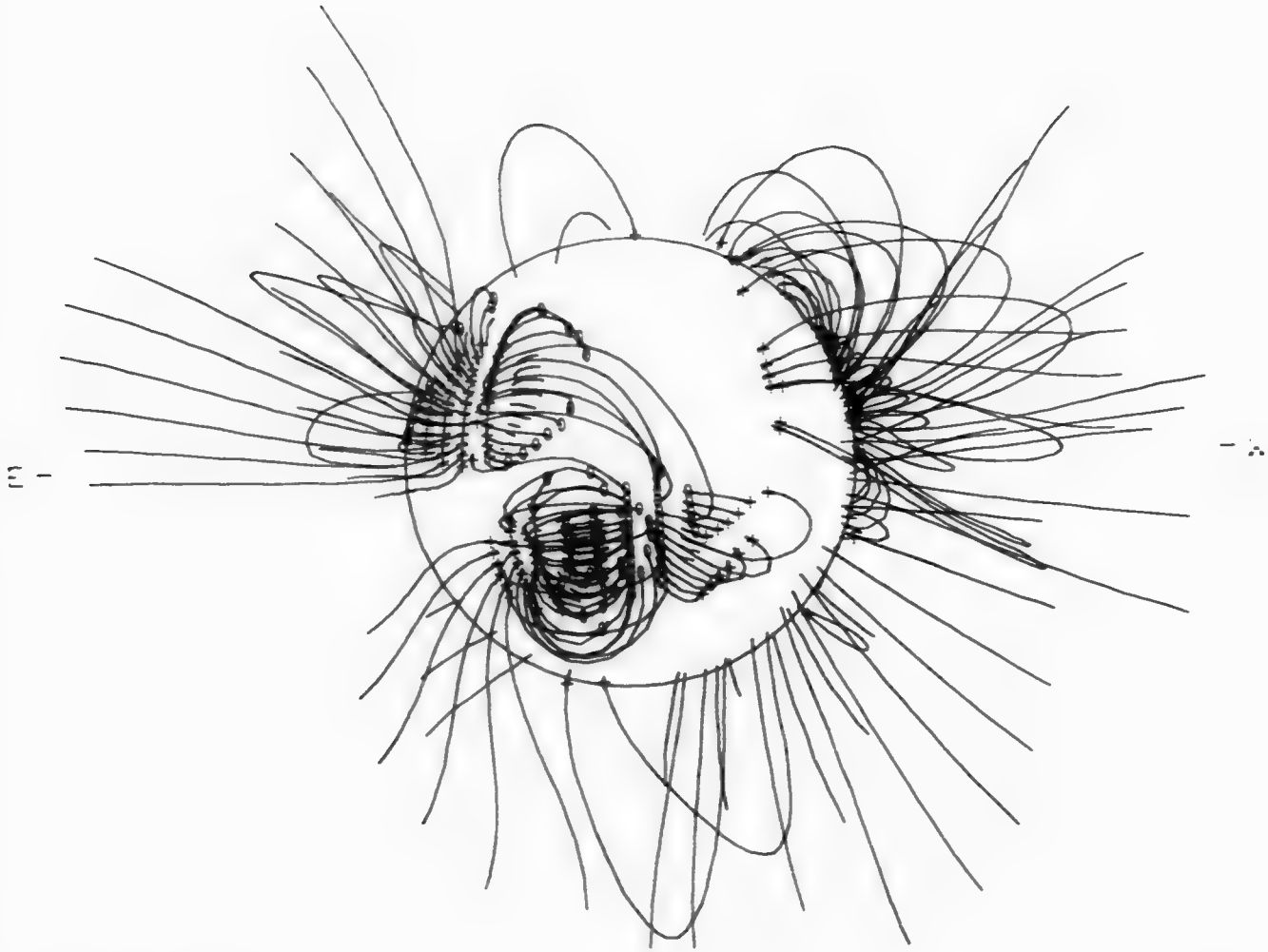
DATA WINDOW 1558.47

ROT. 1559 LONG. 31°

20.7 MAR 1971

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N



E

A

S

QUALITY FAIR

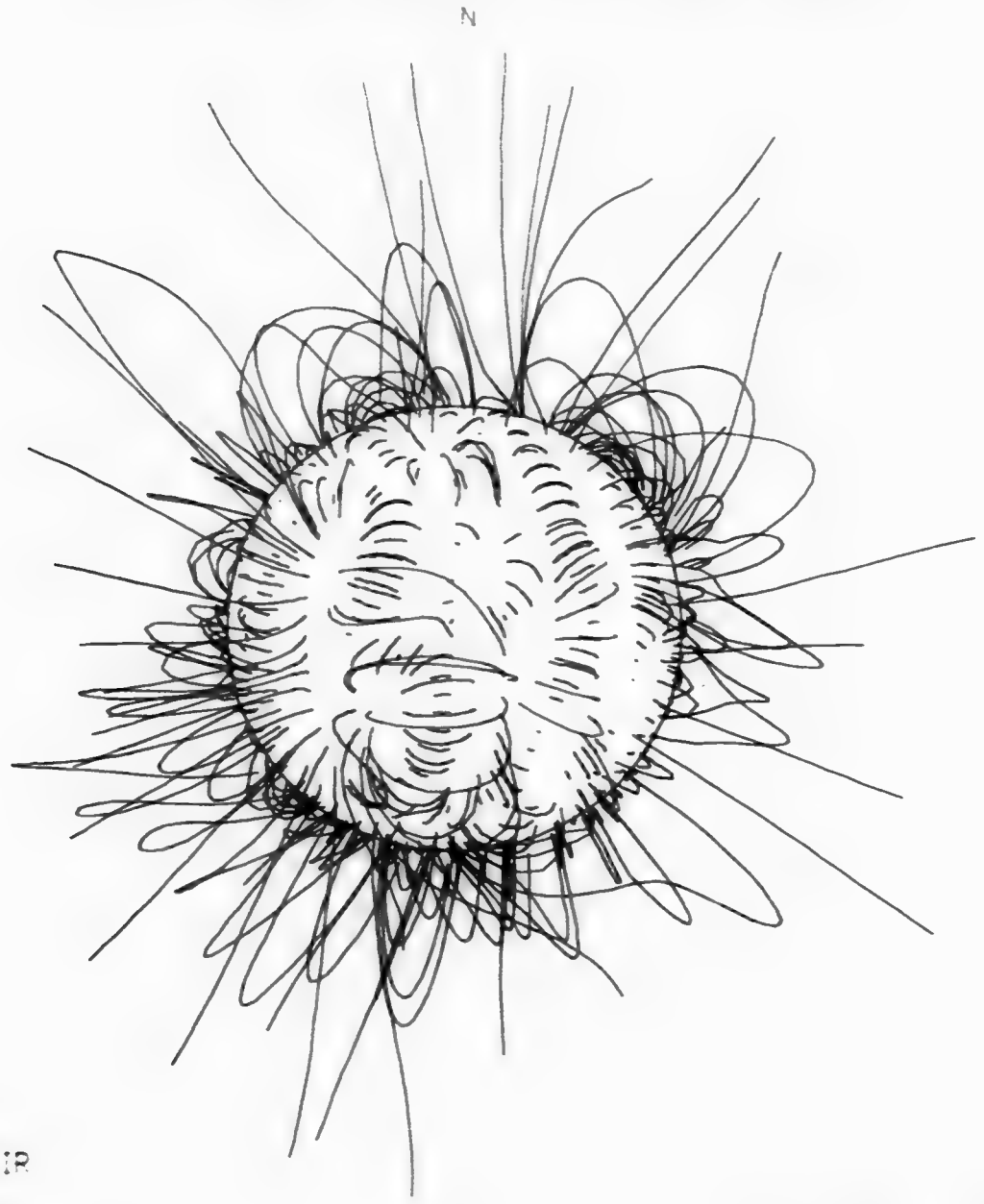
POLES DIRECT

DATA WINDOW 1558.47

ROT. 1559 LONG. 51°

20.7 MAR 1970

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



QUALITY FAIR

POLES DIRECT

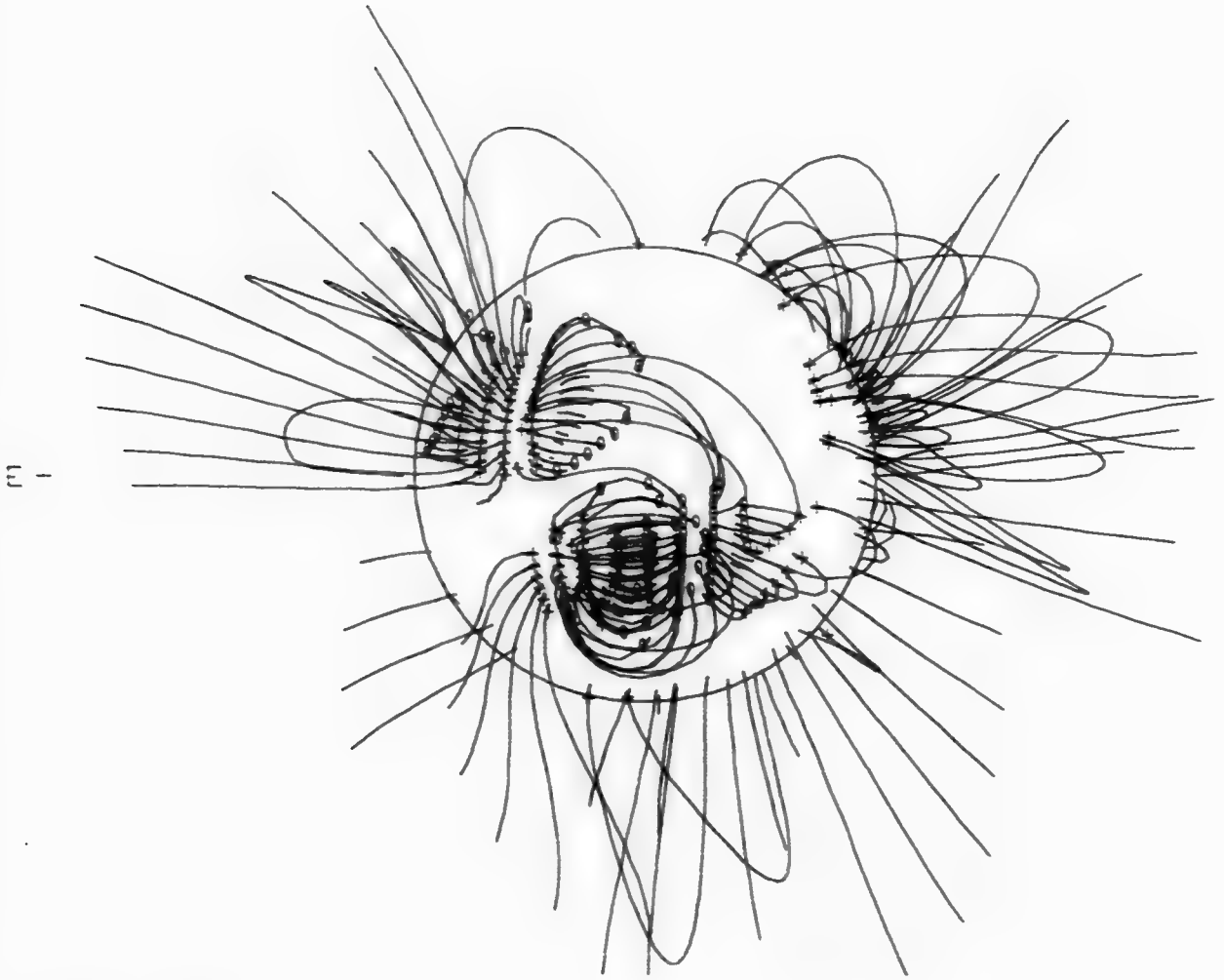
DATA WINDOW 1558.47

ROT. 1559 LONG. 300°

21.5 MAR 197?

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N



E

W

S

QUALITY FAIR

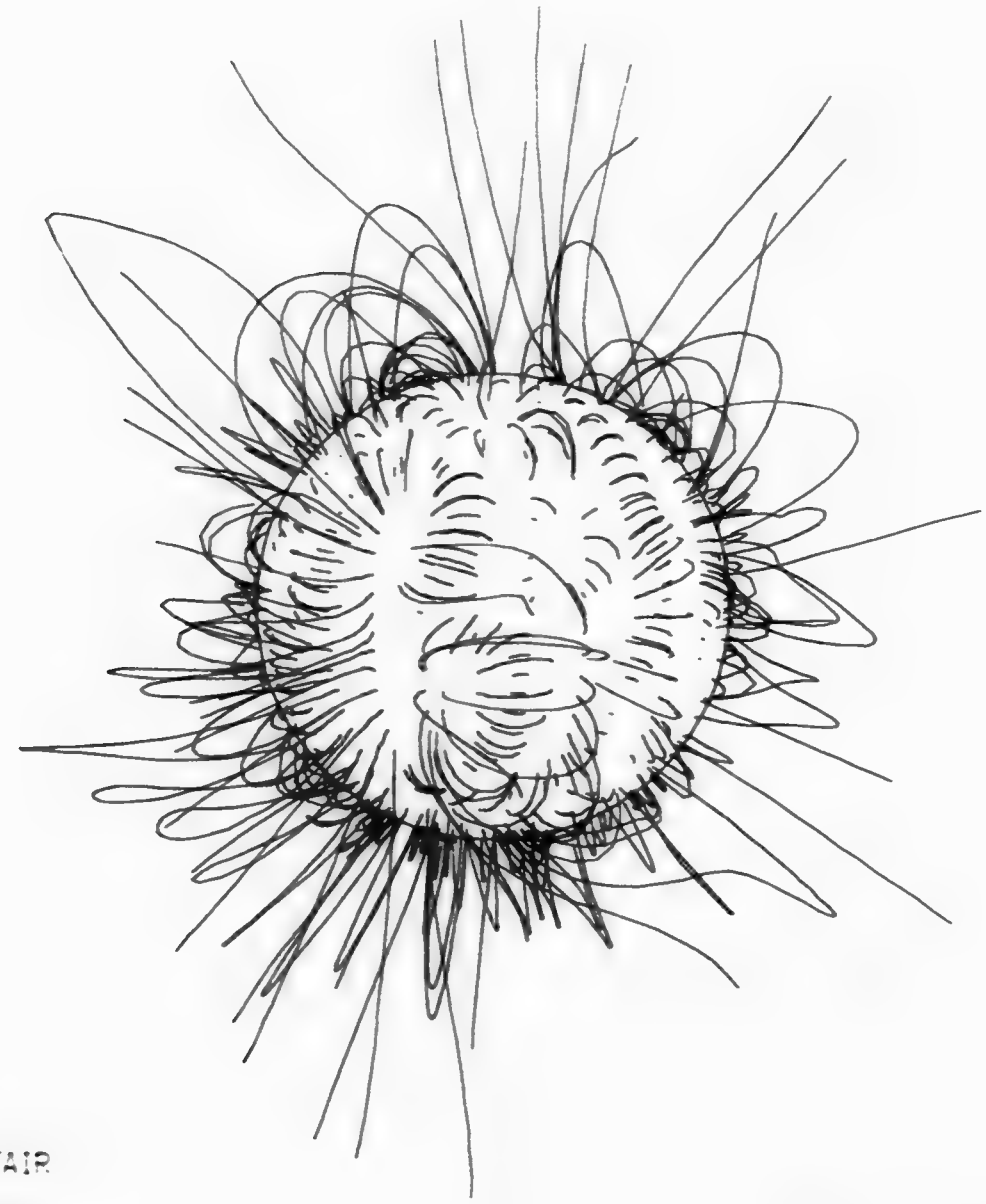
POLES DIRECT

DATA WINDOW 1558.47

ROT. 1559 LONG. 300°

21.5 MAR 1970

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



QUALITY FAIR

POLES DIRECT

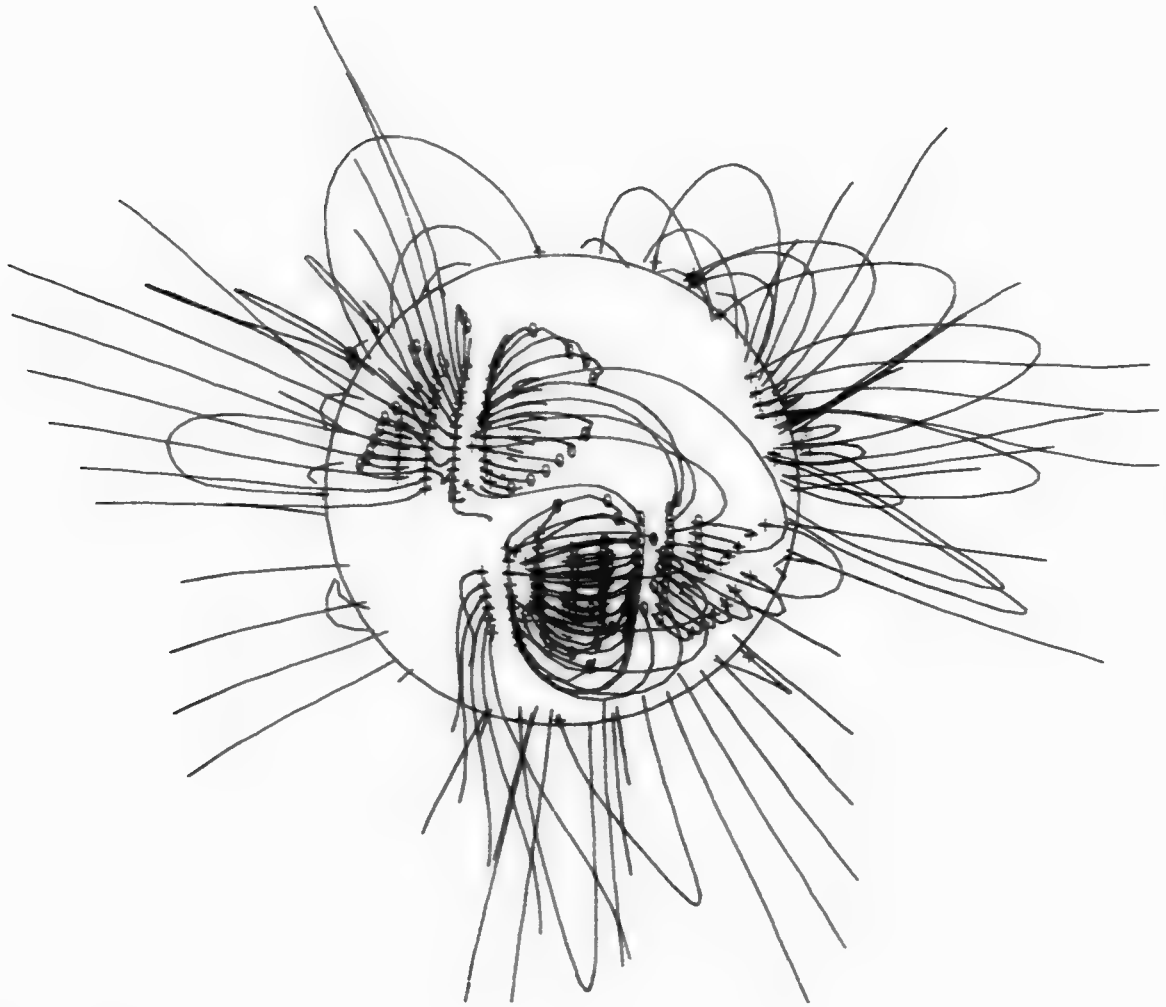
DATA WINDOW 1558.47

ROT. 1559 LONG. 291°

22.2 MAR 197[illegible]

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N



E

W

S

QUALITY FAIR

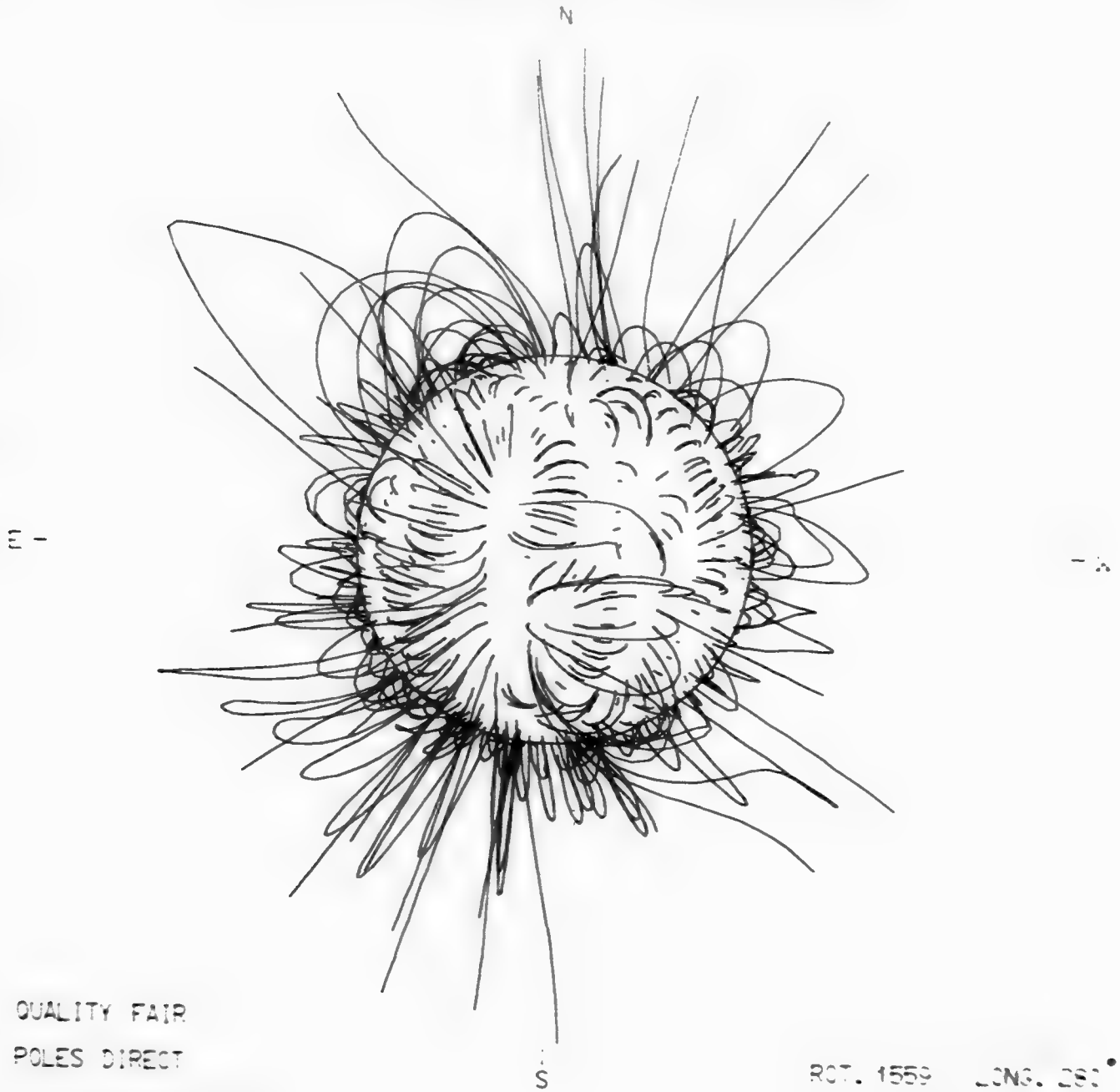
POLES DIRECT

DATA WINDOW 1558.47

ROT. 1559 LONG. 290°

22.2 MAR 1971

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



QUALITY FAIR

POLES DIRECT

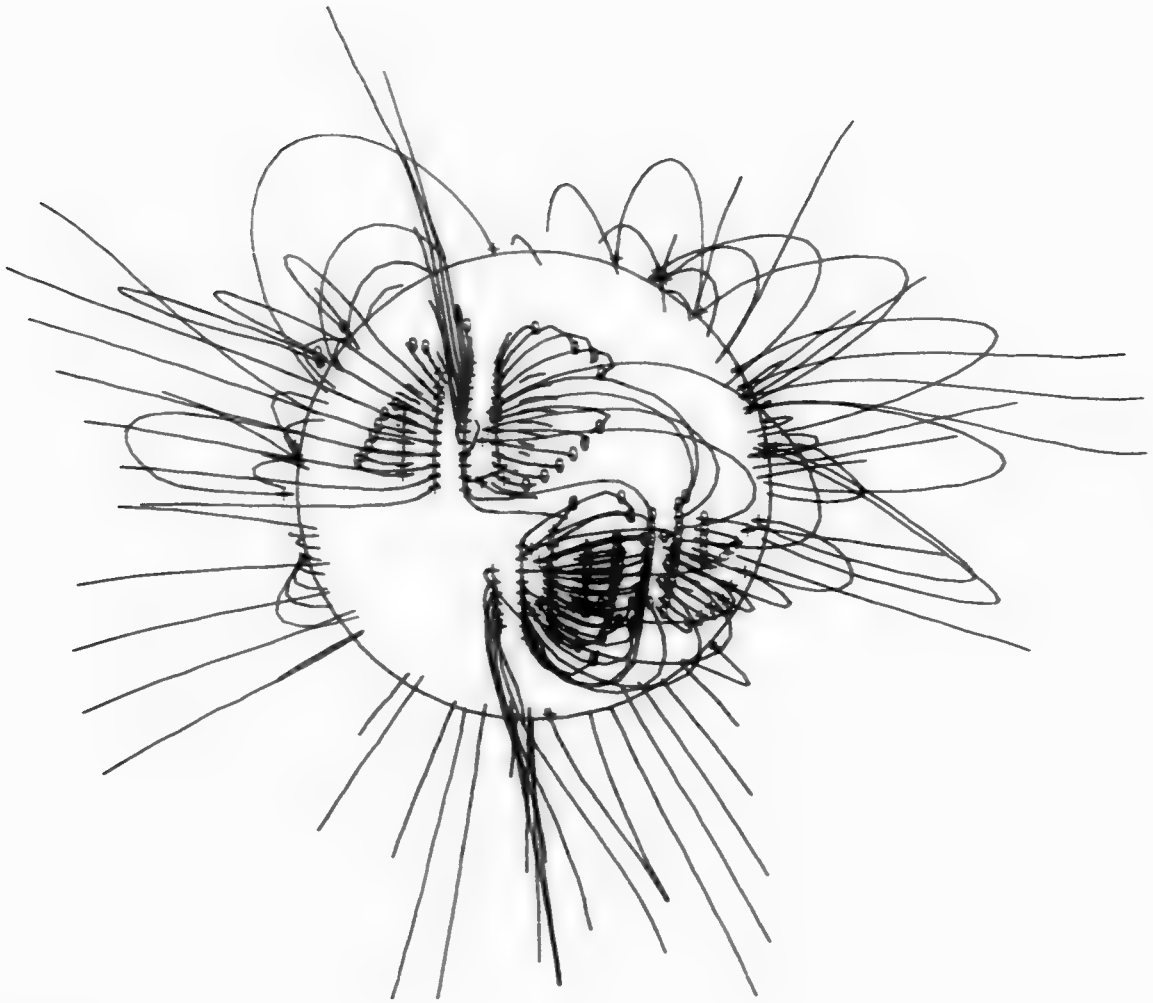
DATA WINDOW 1558.47

ROT. 1559 LONG. 281°

23.0 MAR 1971

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N



E

A

S

QUALITY FAIR

POLES DIRECT

DATA WINDOW 1558.47

ROT. 1559 LONG. 280°

23.0 MAR 1970

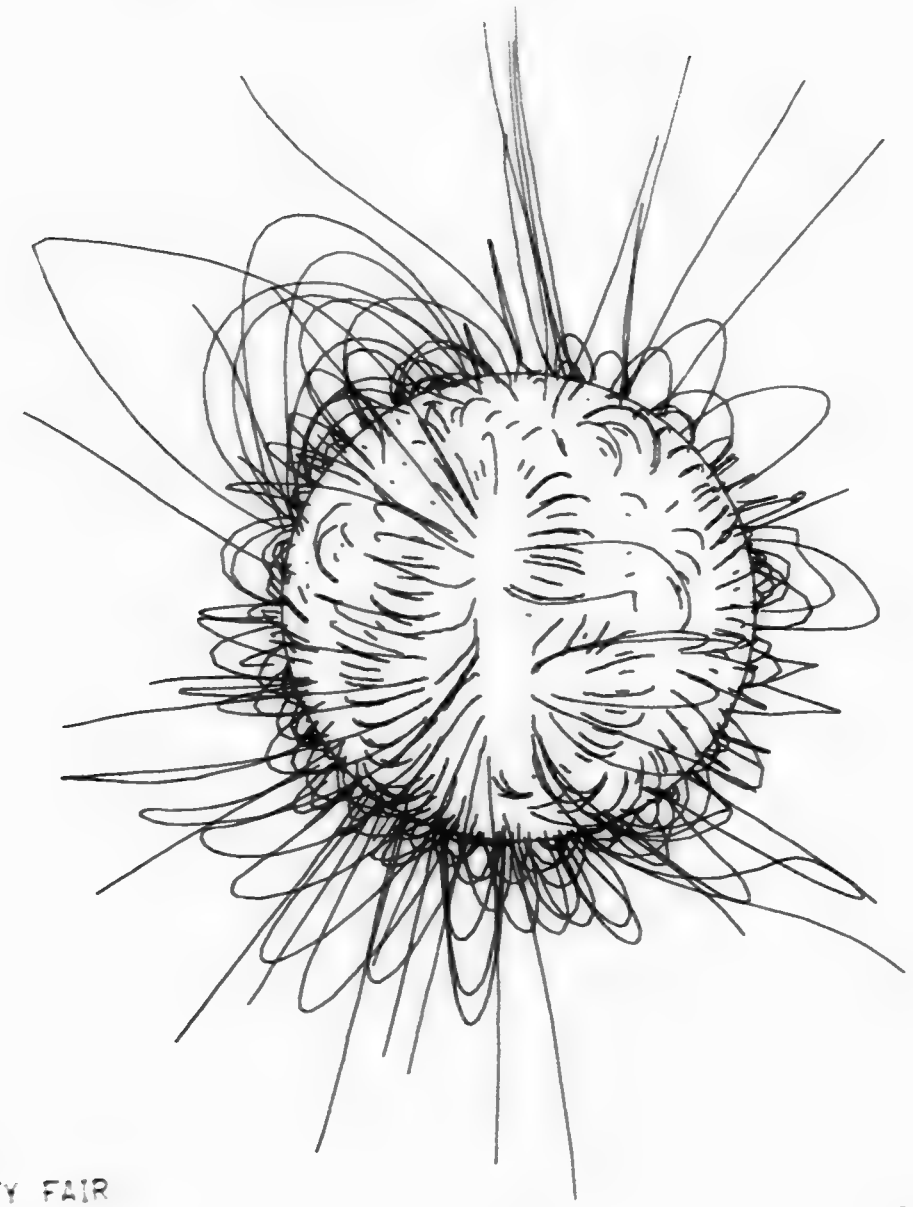
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N

E -

- A

S



QUALITY FAIR

POLES DIRECT

DATA WINDOW 1558.47

ROT. 1559 LONG. 27°

23.7 MAR 197?

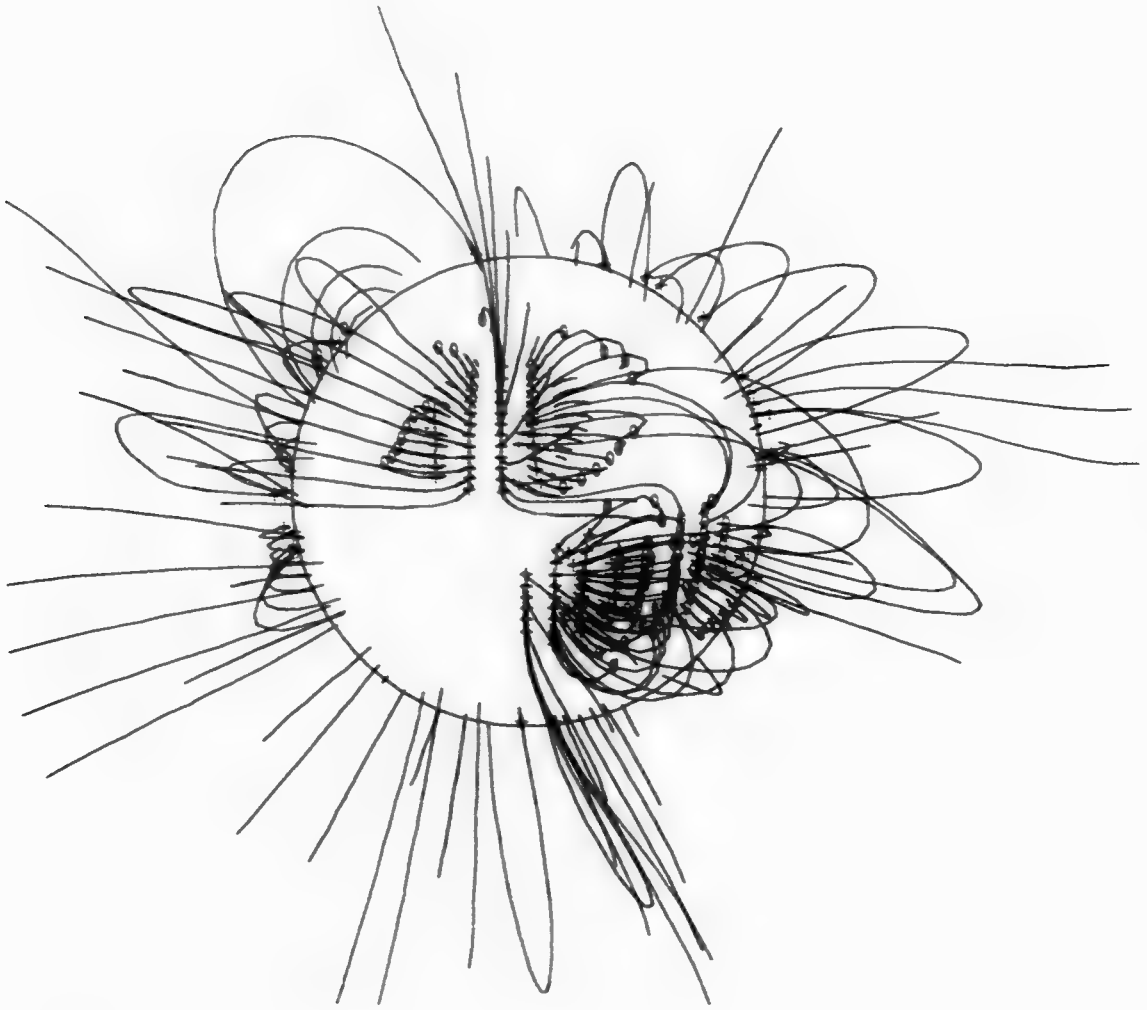
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N

E

W

S



QUALITY FAIR

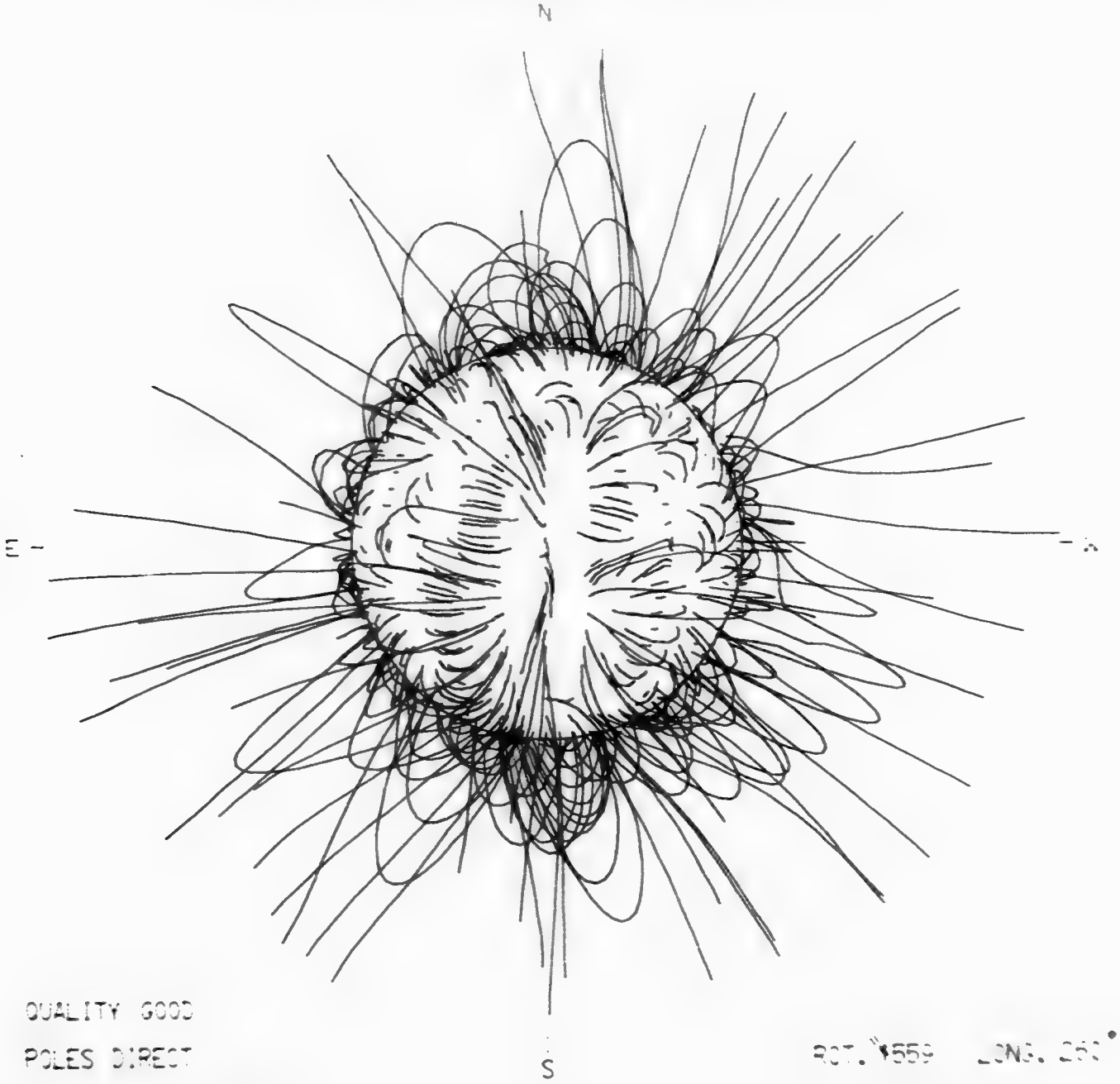
POLES DIRECT

DATA WINDOW 1558.47

ROT. 1559 LONG. 270°

23.7 MAR 1970

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



QUALITY GOOD

POLES DIRECT

DATA WINDOW 1559.00

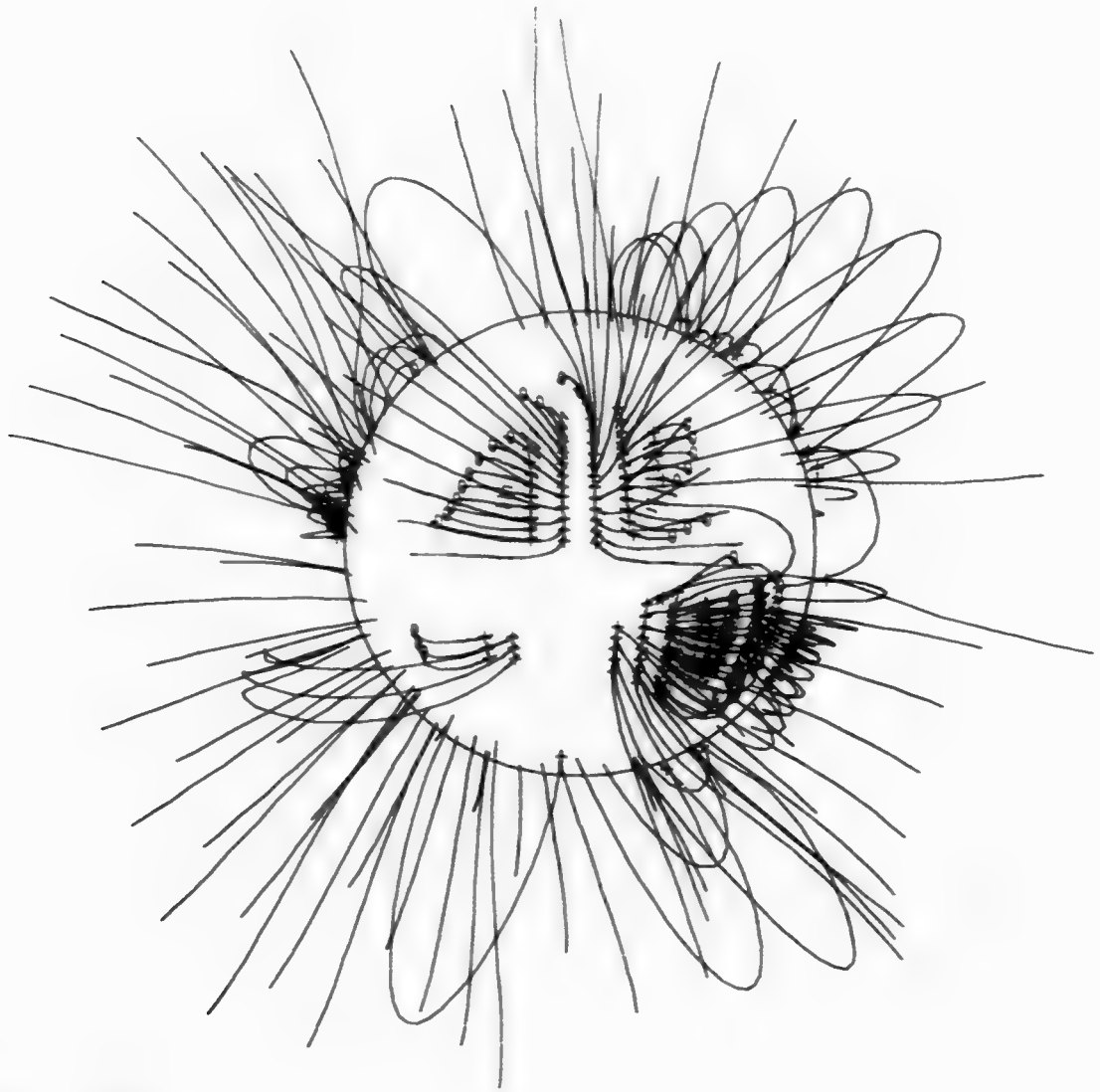
ROT. 1559 LONG. 258°

24.5 MAR 1970

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N

E -



S

QUALITY GOOD

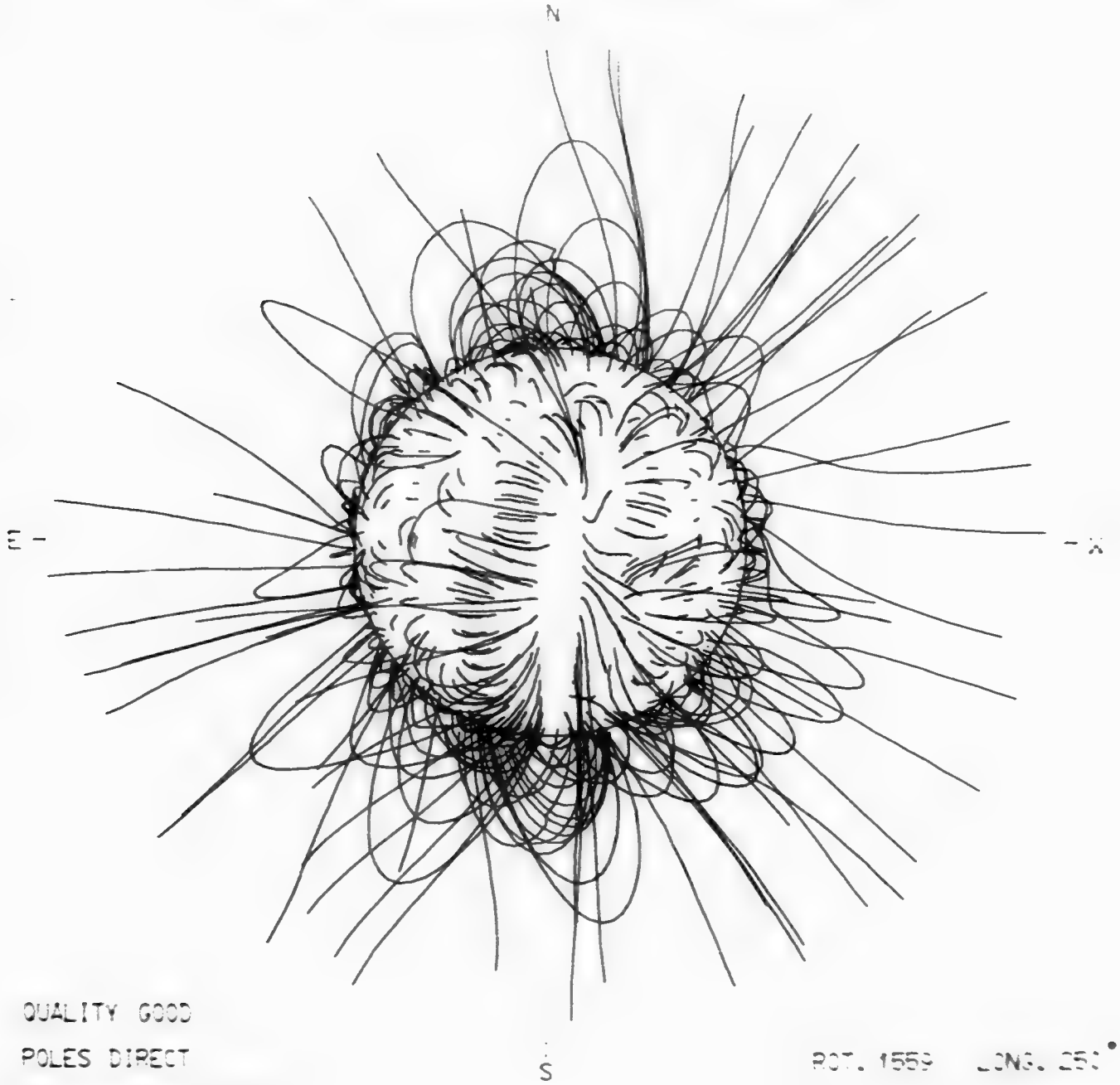
POLES DIRECT

DATA WINDOW 1559.00

ROT. 1559 LONG. 250°

24.5 MAR 1970

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



QUALITY GOOD

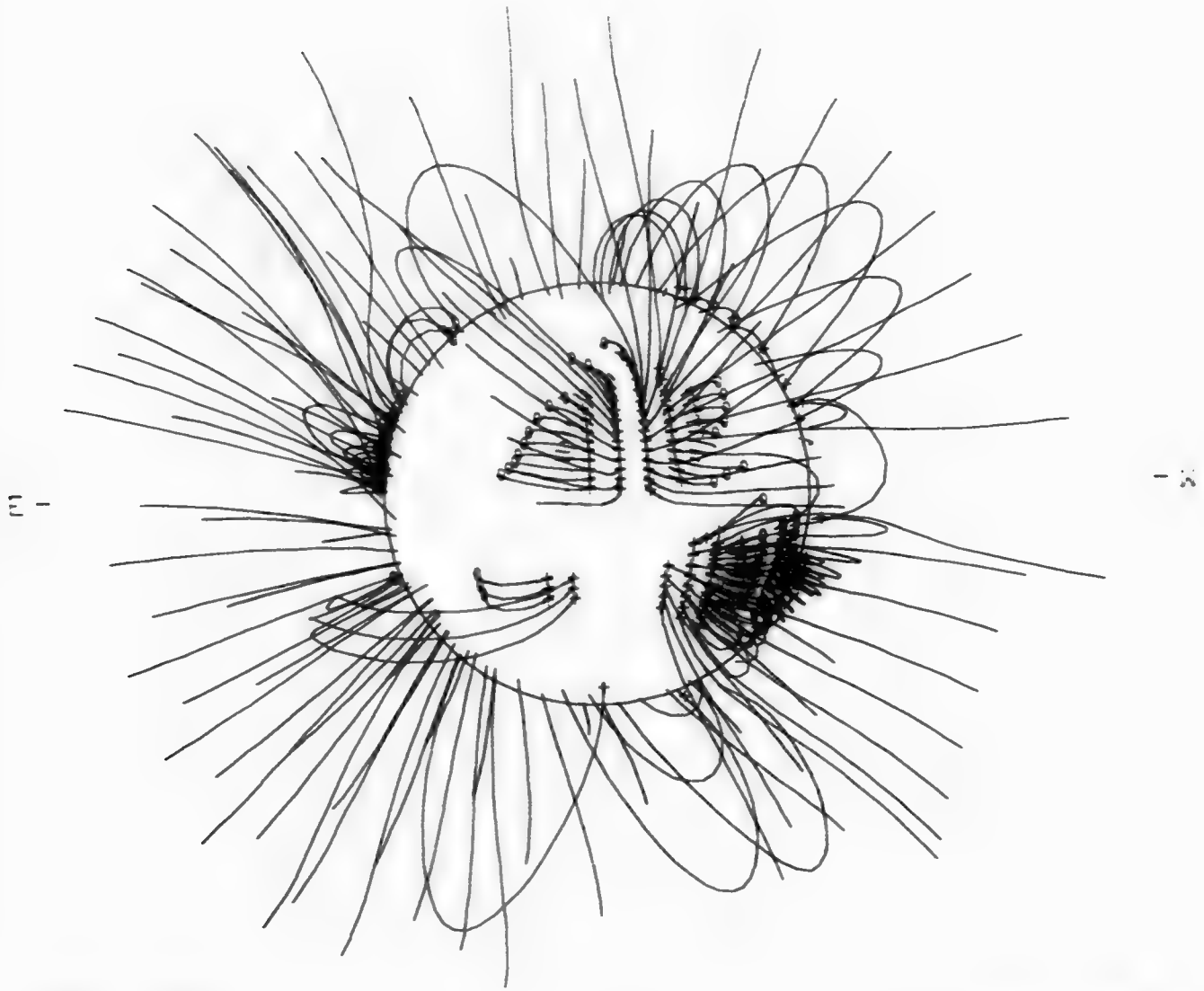
POLES DIRECT

DATA WINDOW 1559.00

ROT. 1559 LONG. 251°

25.3 MAR 1970

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



QUALITY GOOD

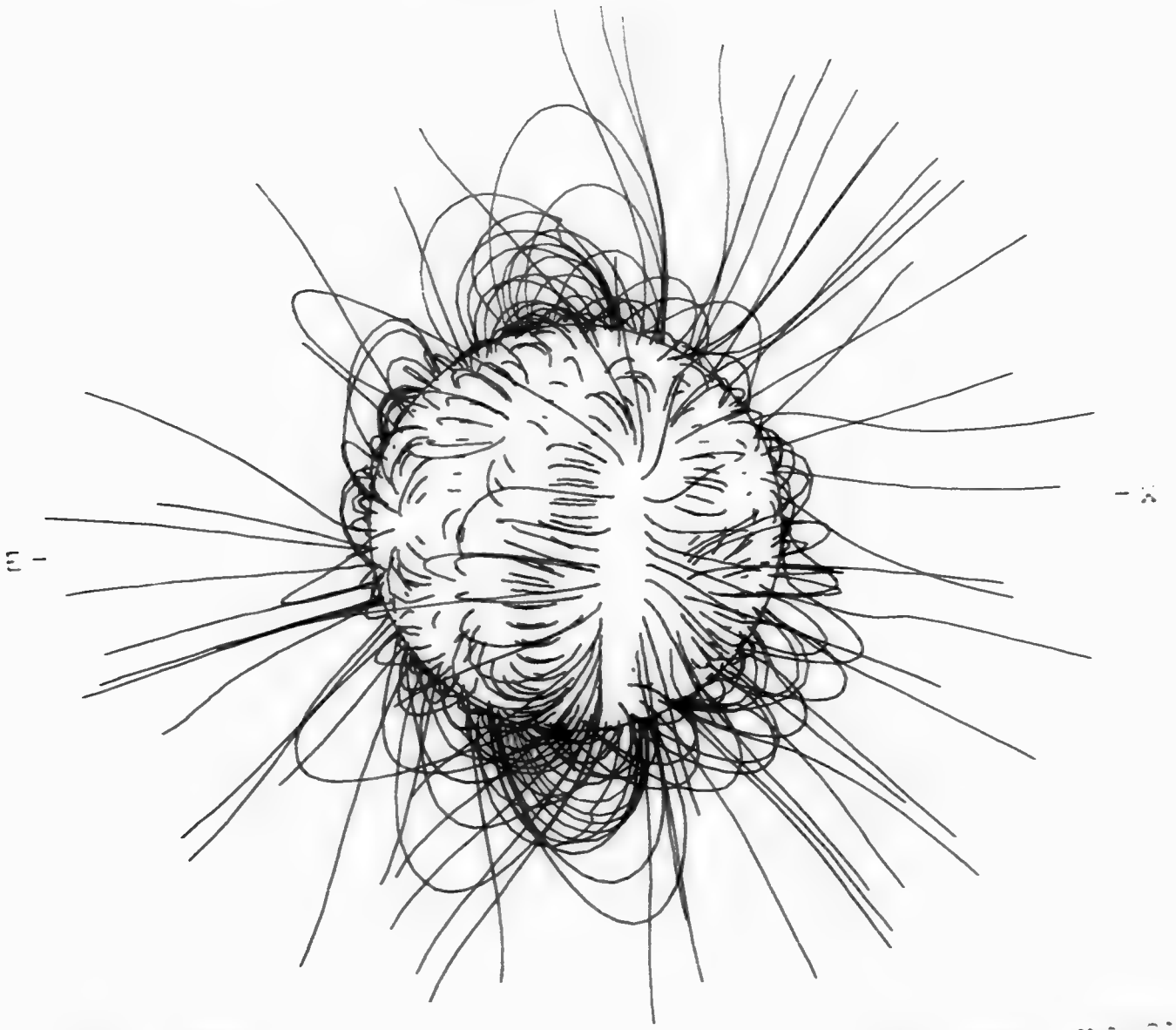
POLES DIRECT

DATA WINDOW 1559.00

ROT. 1559 LONG. 25°

25.5 MAR 1970

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



QUALITY GOOD

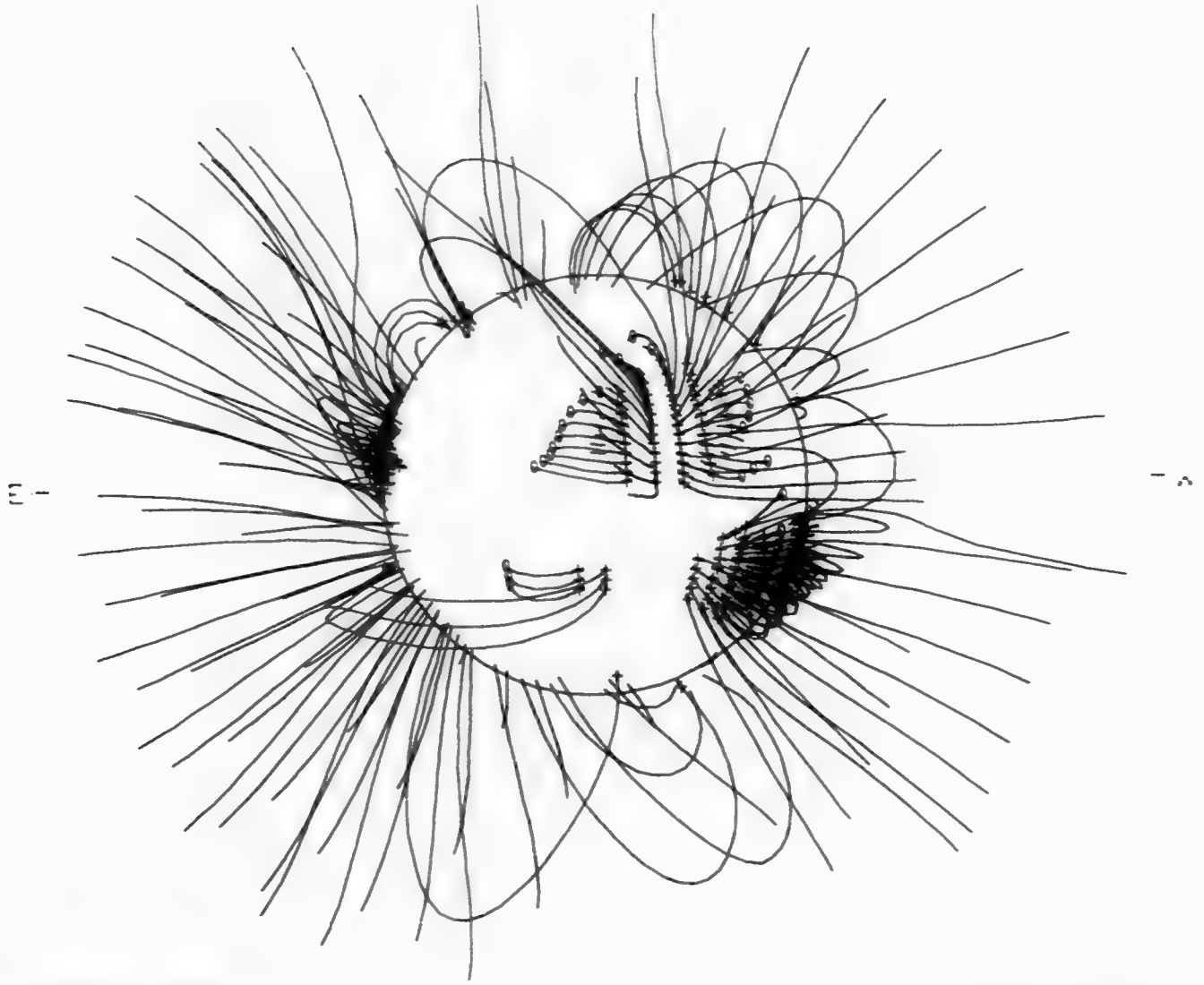
POLES DIRECT

DATA WINDOW 1559.00

ROT. 1559 LONG. 241°

26 MAR 1971

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



QUALITY GOOD

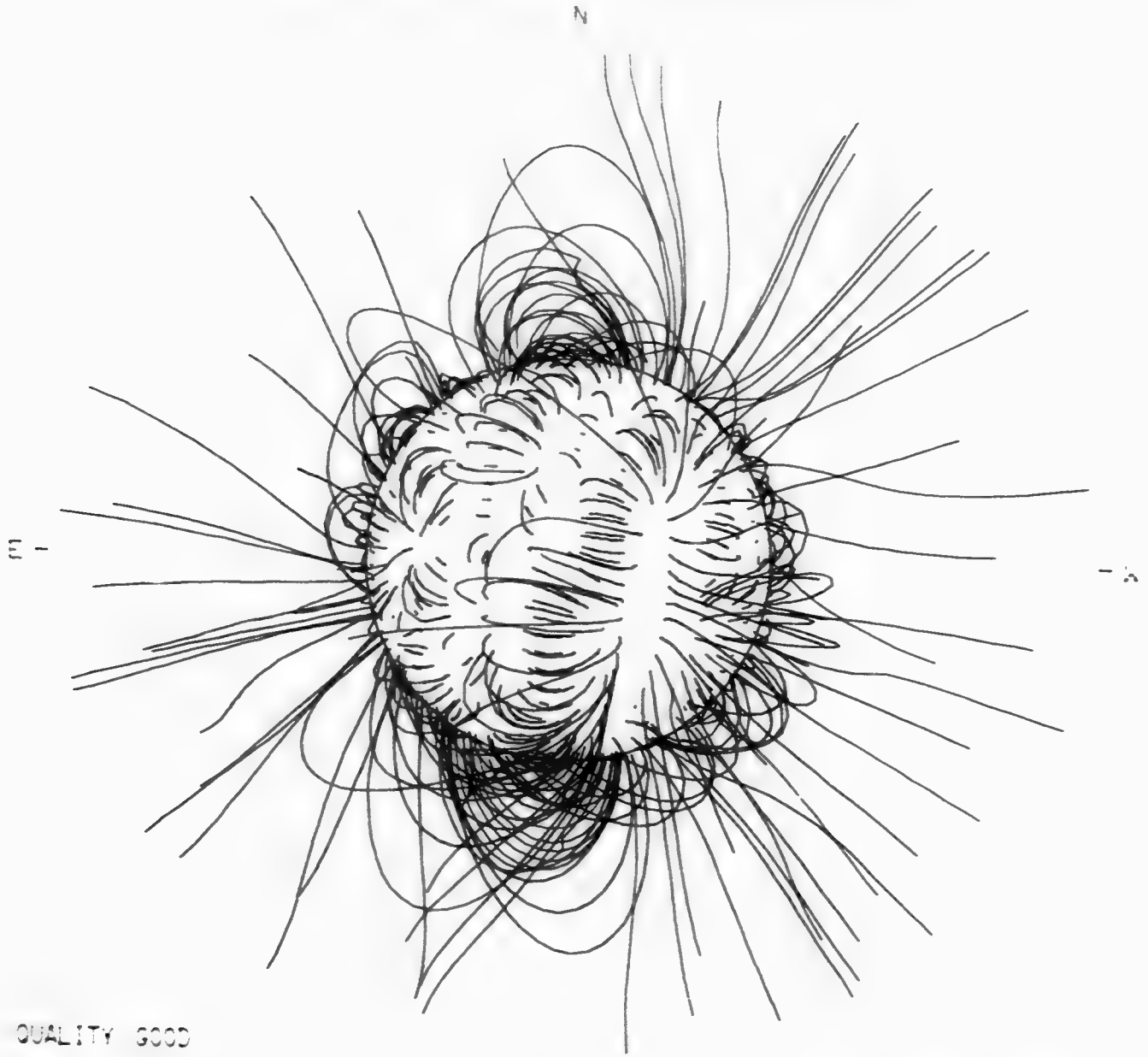
POLES DIRECT

DATA WINDOW 1559.00

ROT. 1559 LONG. 241°

26.3 MAR 1970

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



QUALITY GOOD

POLES DIRECT

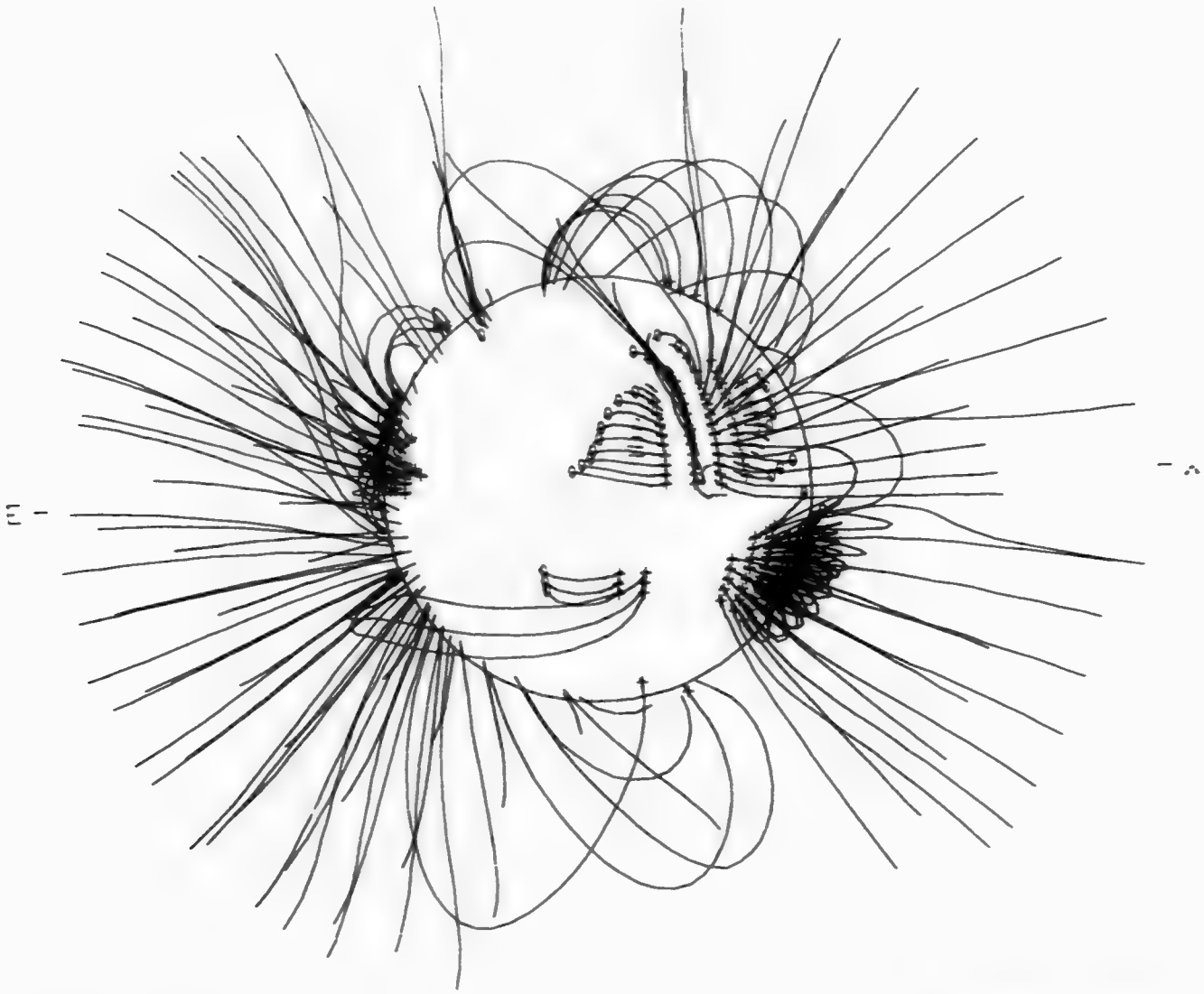
DATA WINDOW 1559.00

ROT. 1559 LONG. 351°

26.8 MAR 197[illegible]

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N



E

A

QUALITY GOOD

POLES DIRECT

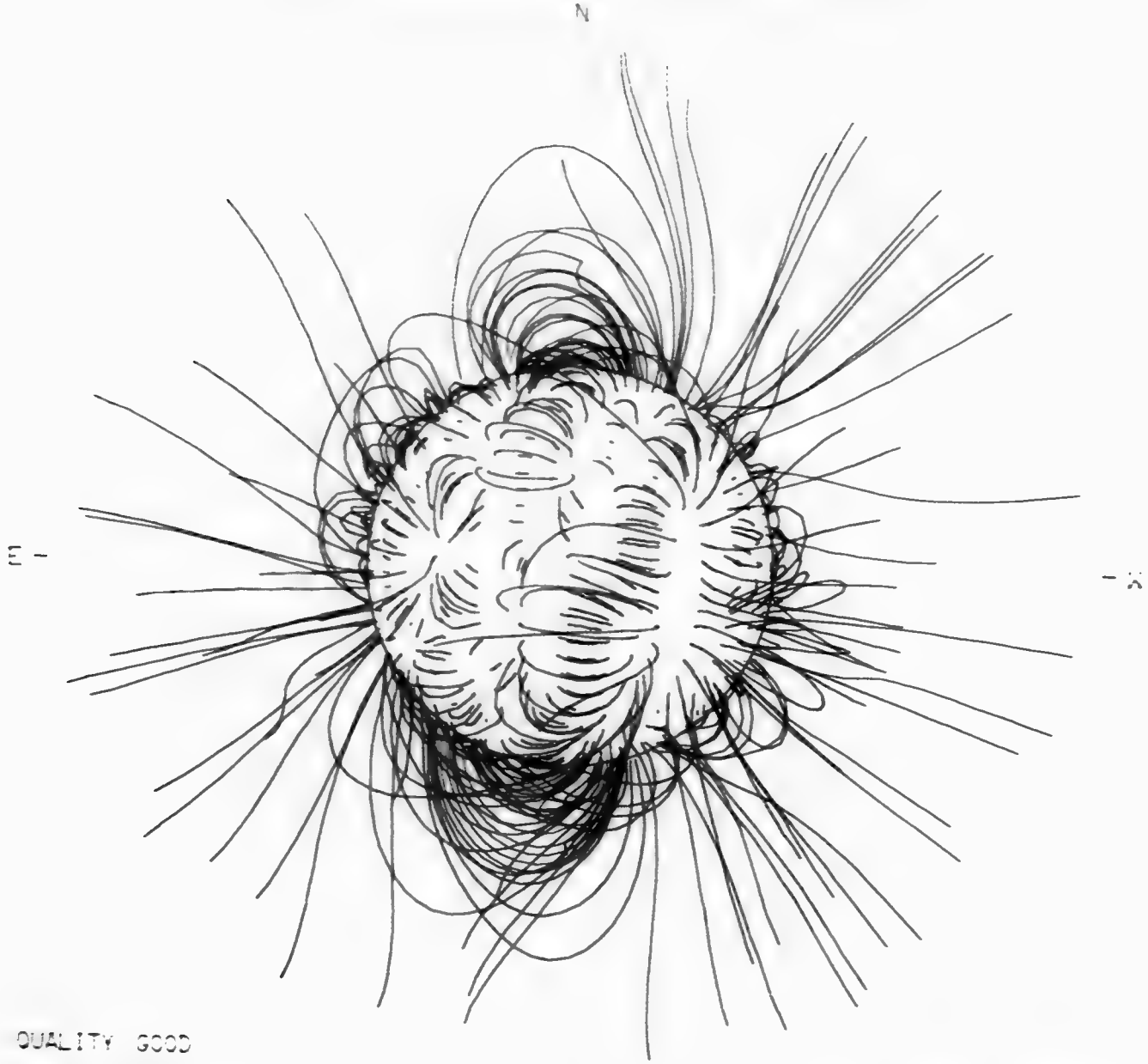
DATA WINDOW 1559.00

S

ROT. 1559 LONG. 251°

26.8 MAR 1972

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



QUALITY GOOD

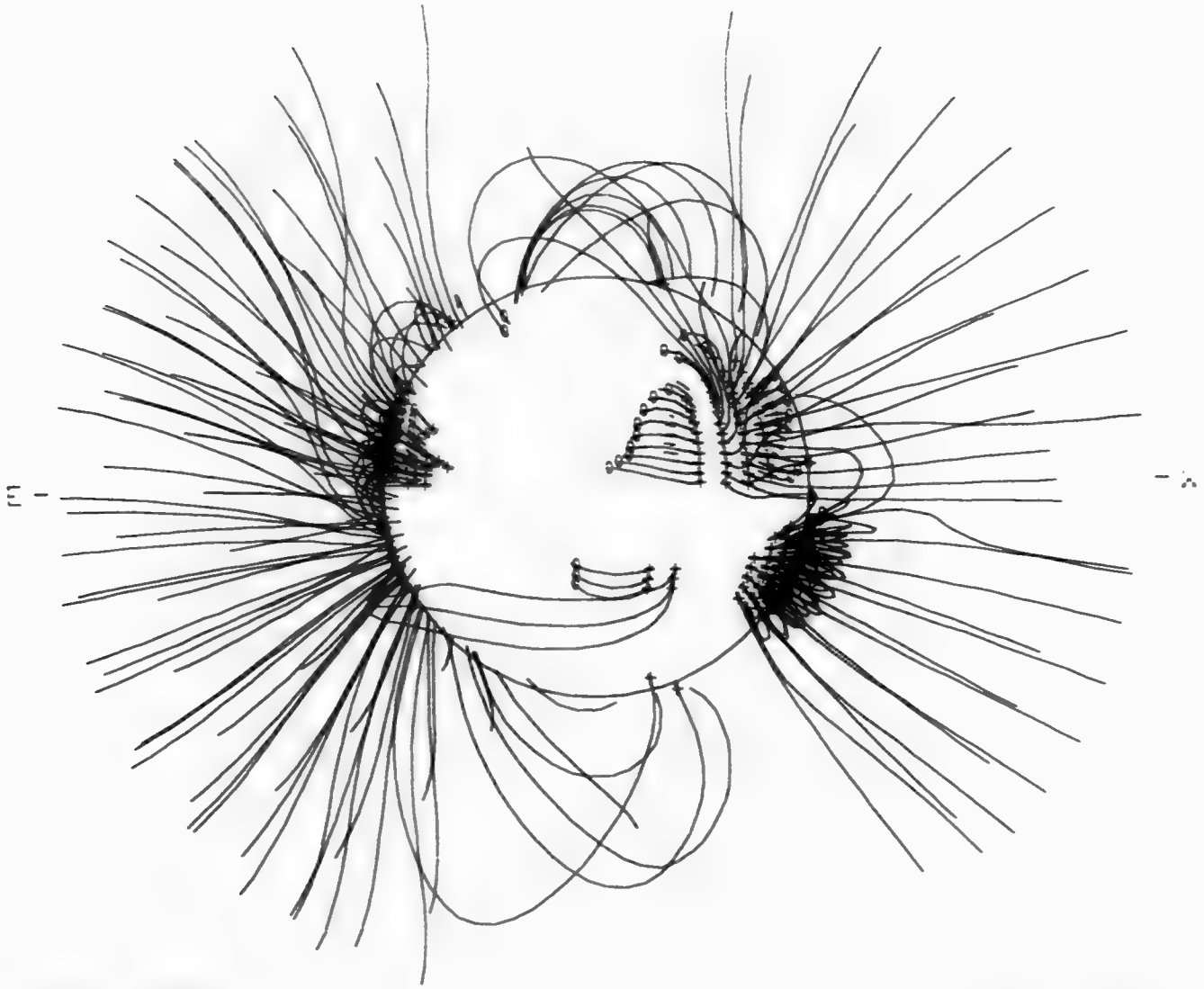
POLES DIRECT

DATA WINDOW 1559.00

ROT. 1559 LONG. 220°

27.5 MAR 1970

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



QUALITY GOOD

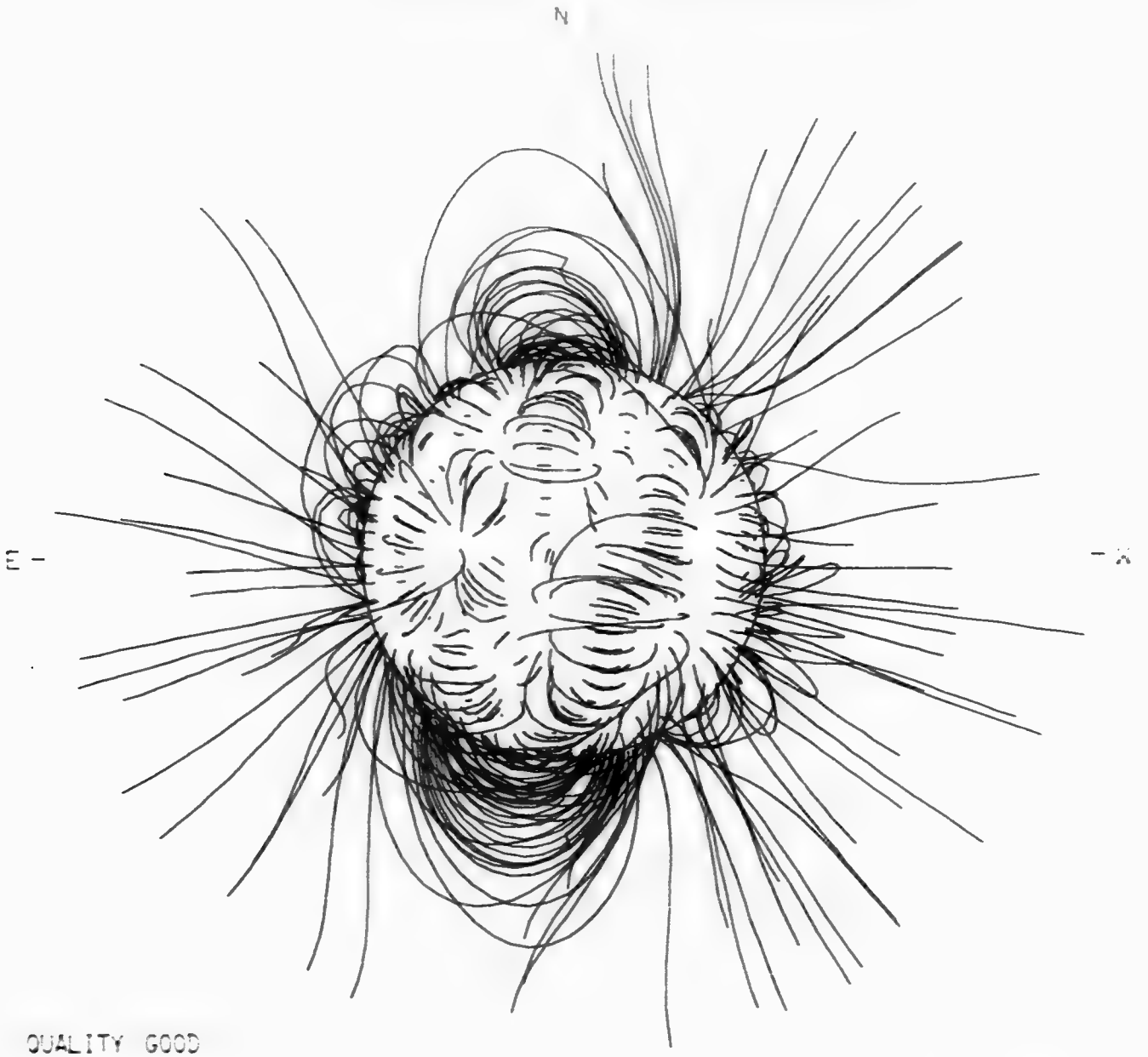
POLES DIRECT

DATA WINDOW 1559.00

ROT. 1559 LONG. 221°

27.5 MAR 1971

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



QUALITY GOOD

POLES DIRECT

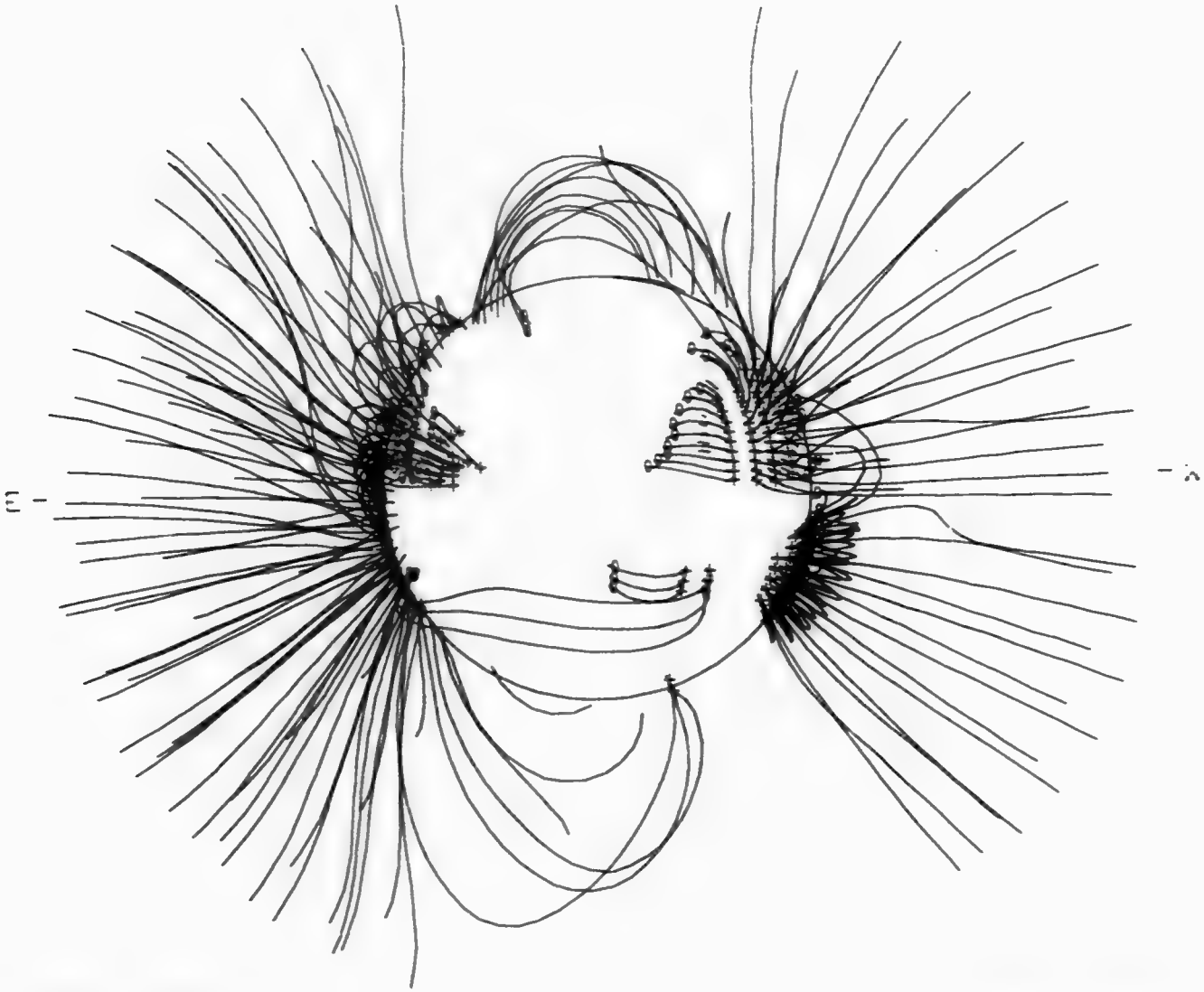
DATA WINDOW 1559.00

ROT. 1559 LONG. 31[illegible]°

28.3 MAR 197[illegible]

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N



E

A

S

QUALITY GOOD

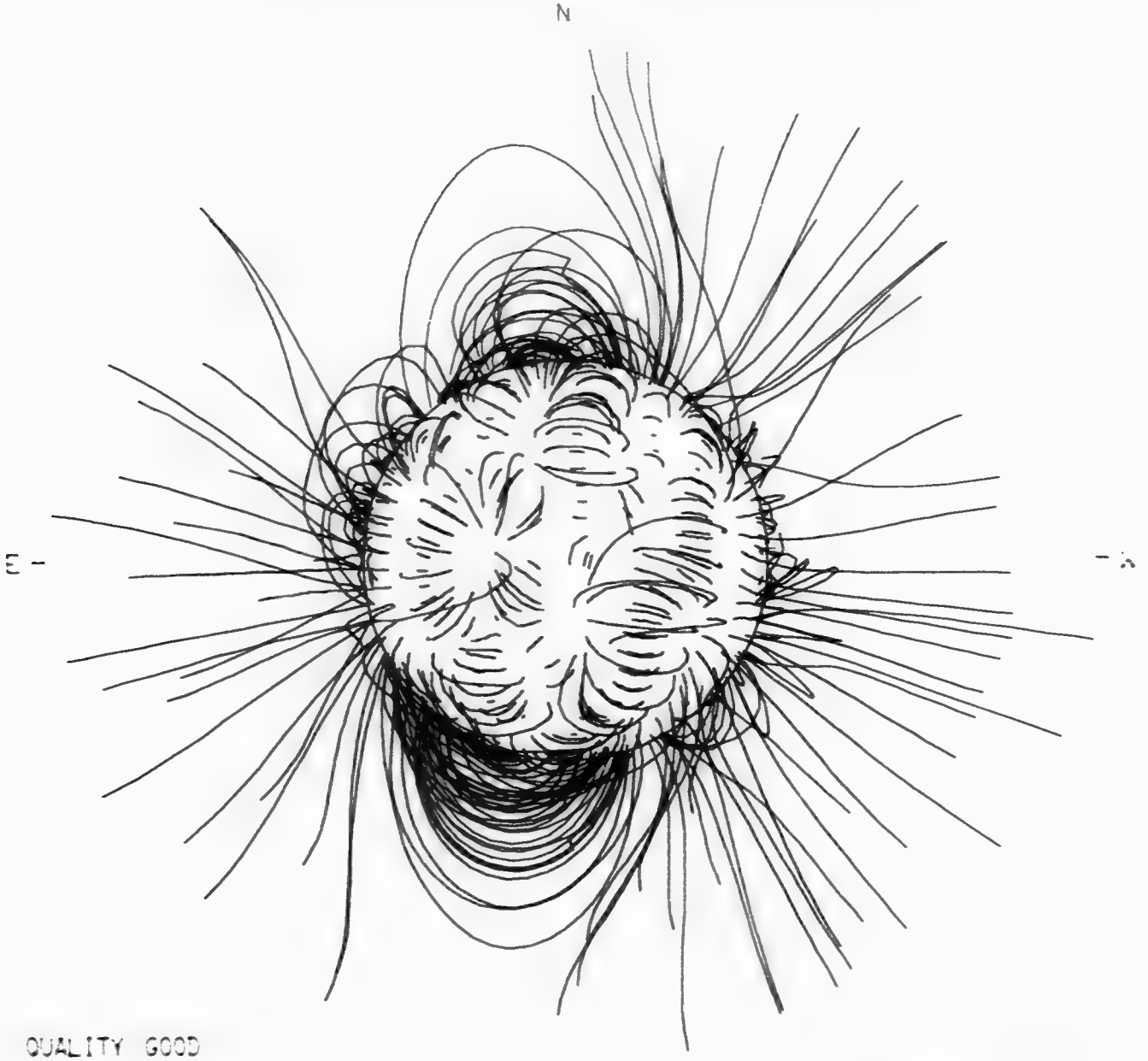
POLES DIRECT

DATA WINDOW 1559.00

ROT. 1559 LONG. 210°

28.3 MAR 1970

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



QUALITY GOOD

POLES DIRECT

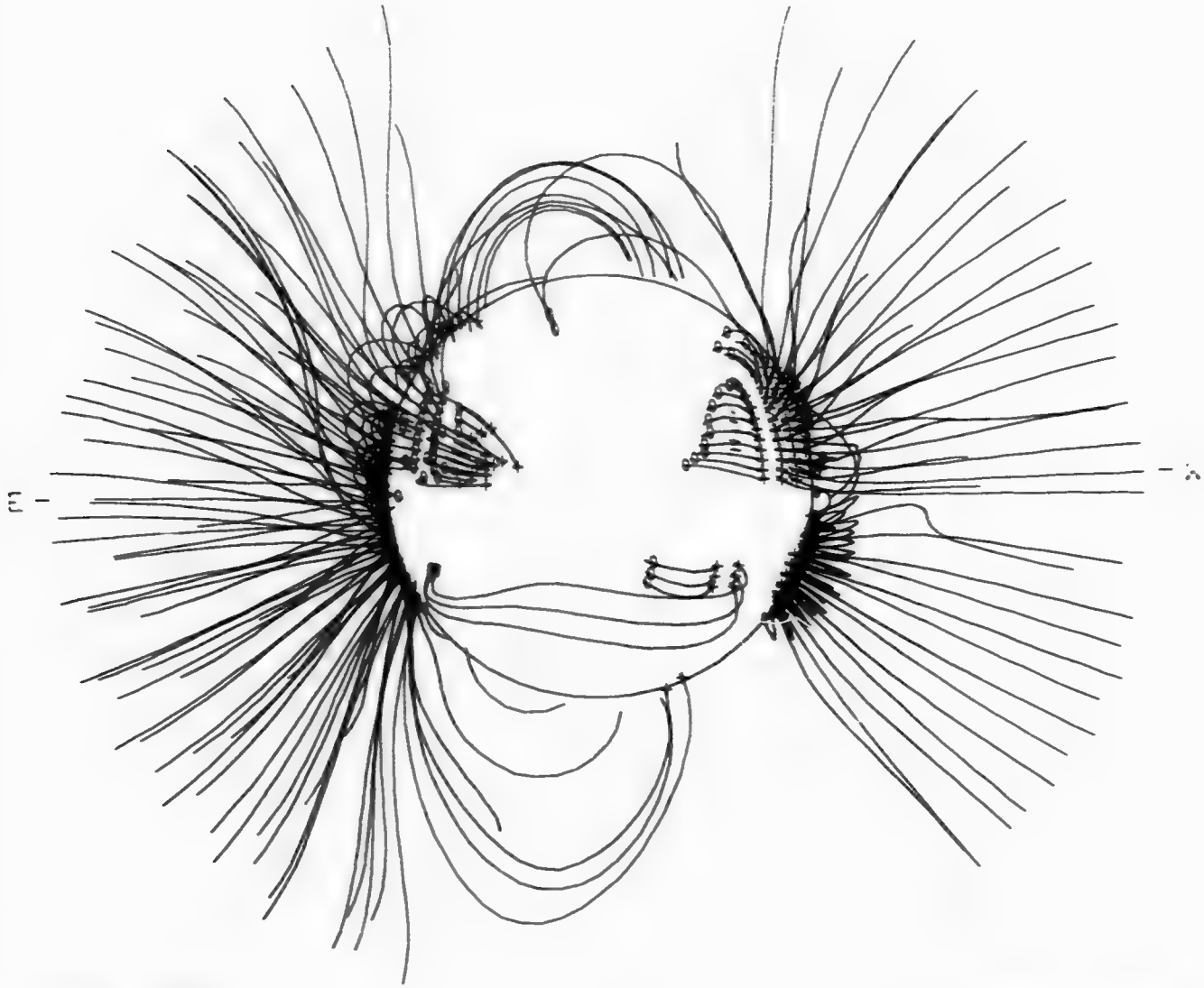
DATA WINDOW 1559.00

ROT. 1559 LONG. 000°

29.0 MAR 1970

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N



QUALITY GOOD

POLES DIRECT

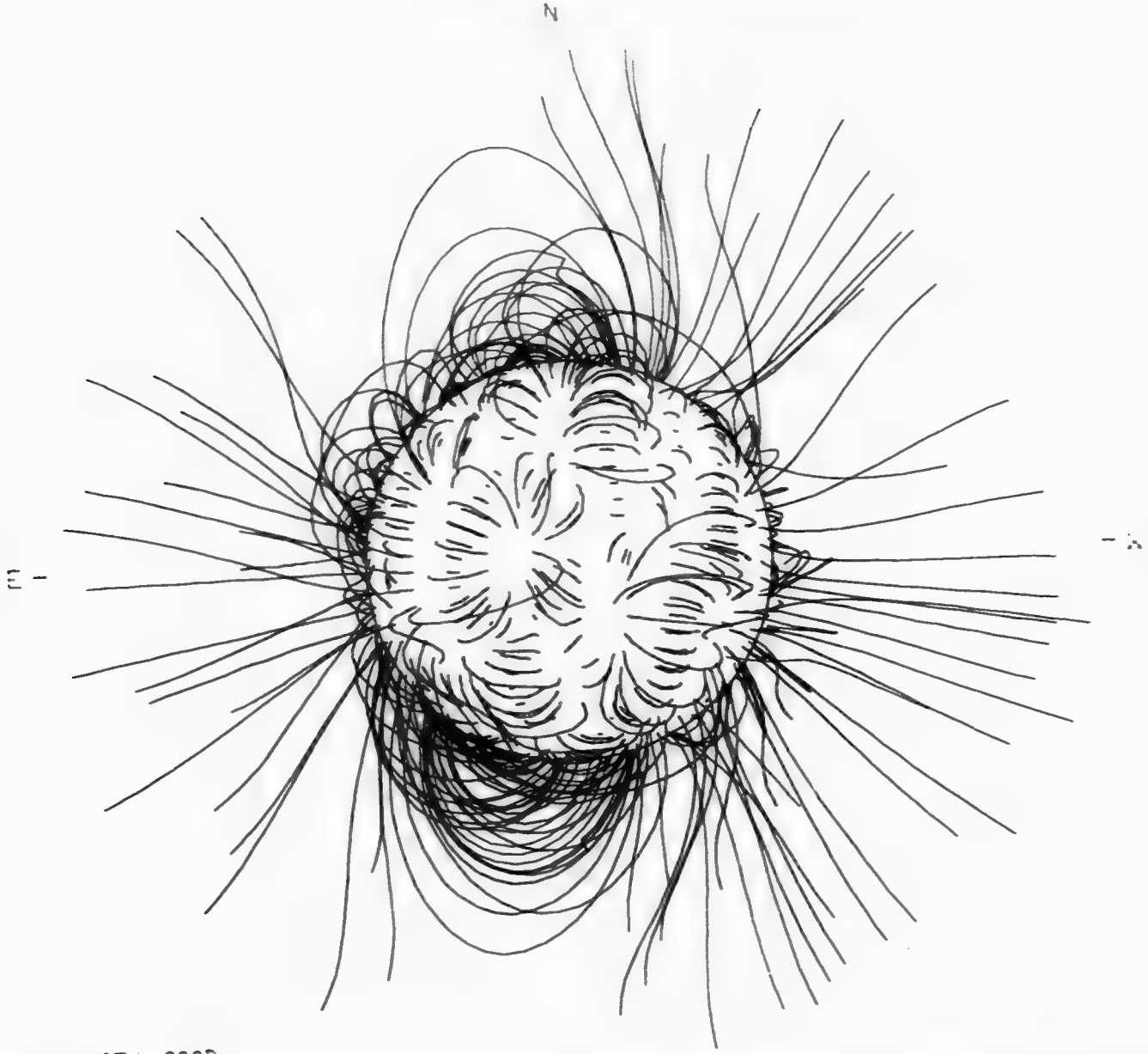
DATA WINDOW 1559.00

S

ROT. 1559 LONG. 233°

29.3 MAR 197[illegible]

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



QUALITY GOOD

POLES DIRECT

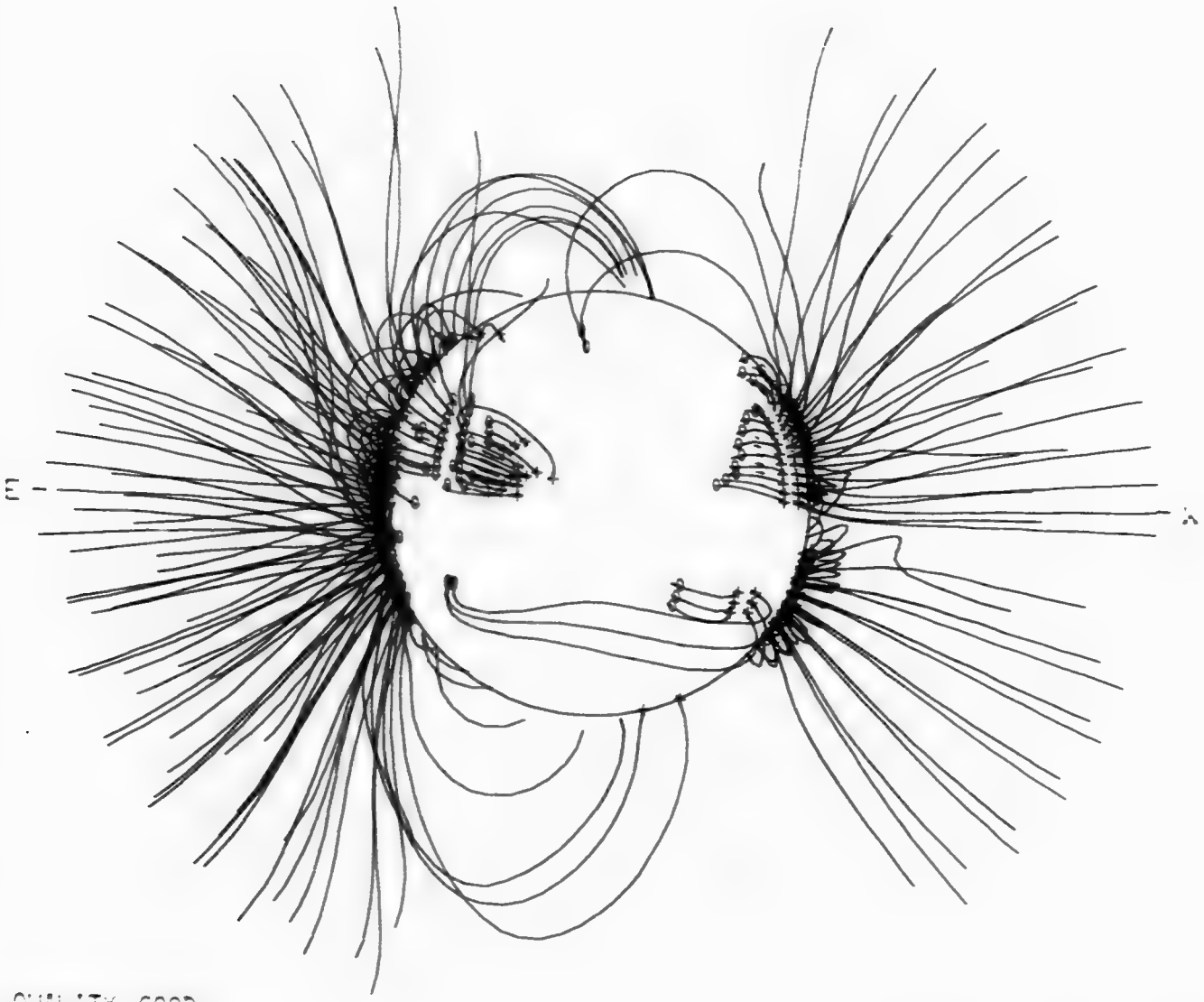
DATA WINDOW 1559.00

ROT. 1559 LONG. 19[illegible]°

29.8 MAR 197[illegible]

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N



QUALITY GOOD

POLES DIRECT

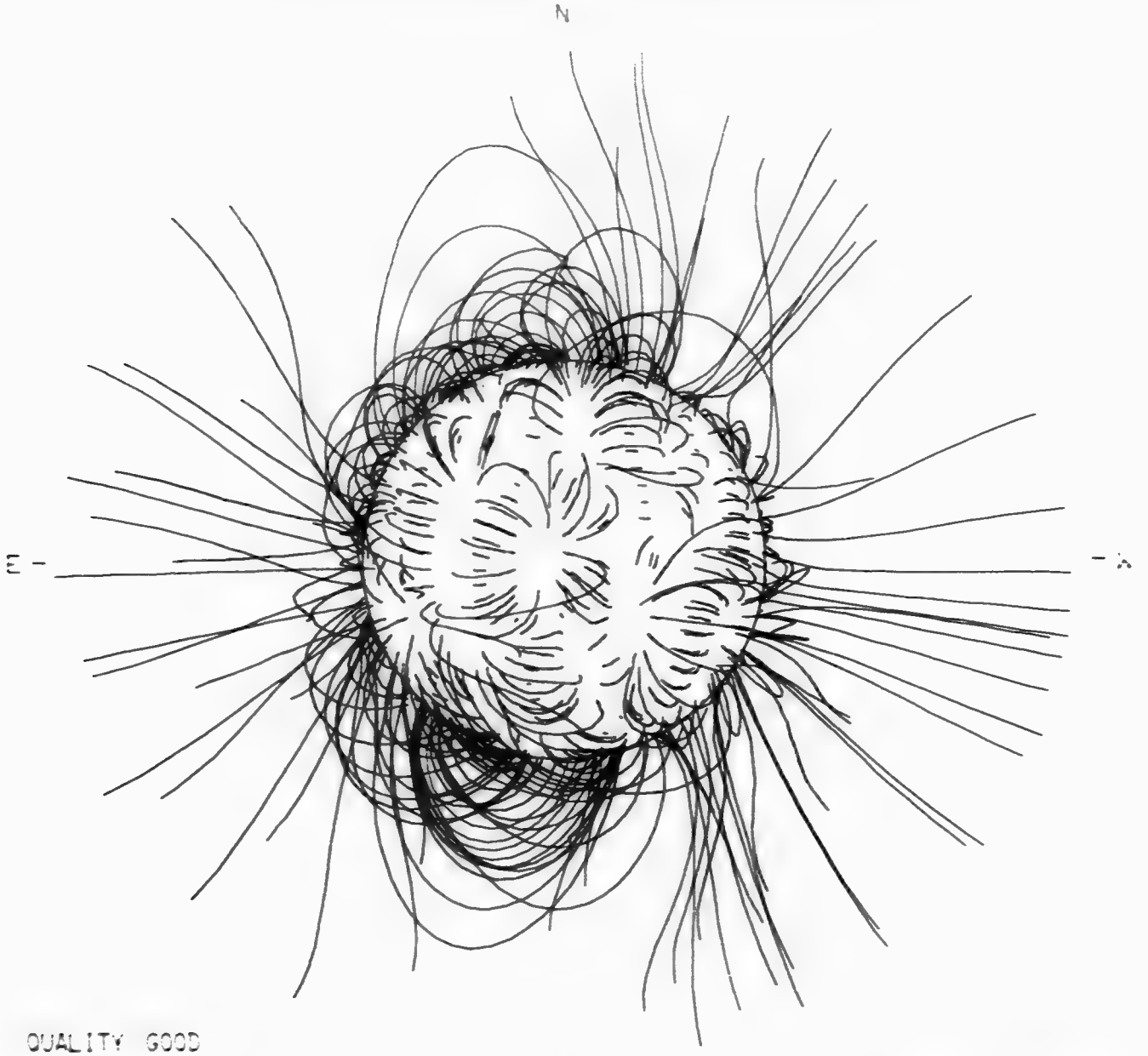
DATA WINDOW 1559.00

S

ROT. 1559 LONG. 1[illegible]°

29.8 MAR 197[illegible]

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



QUALITY GOOD

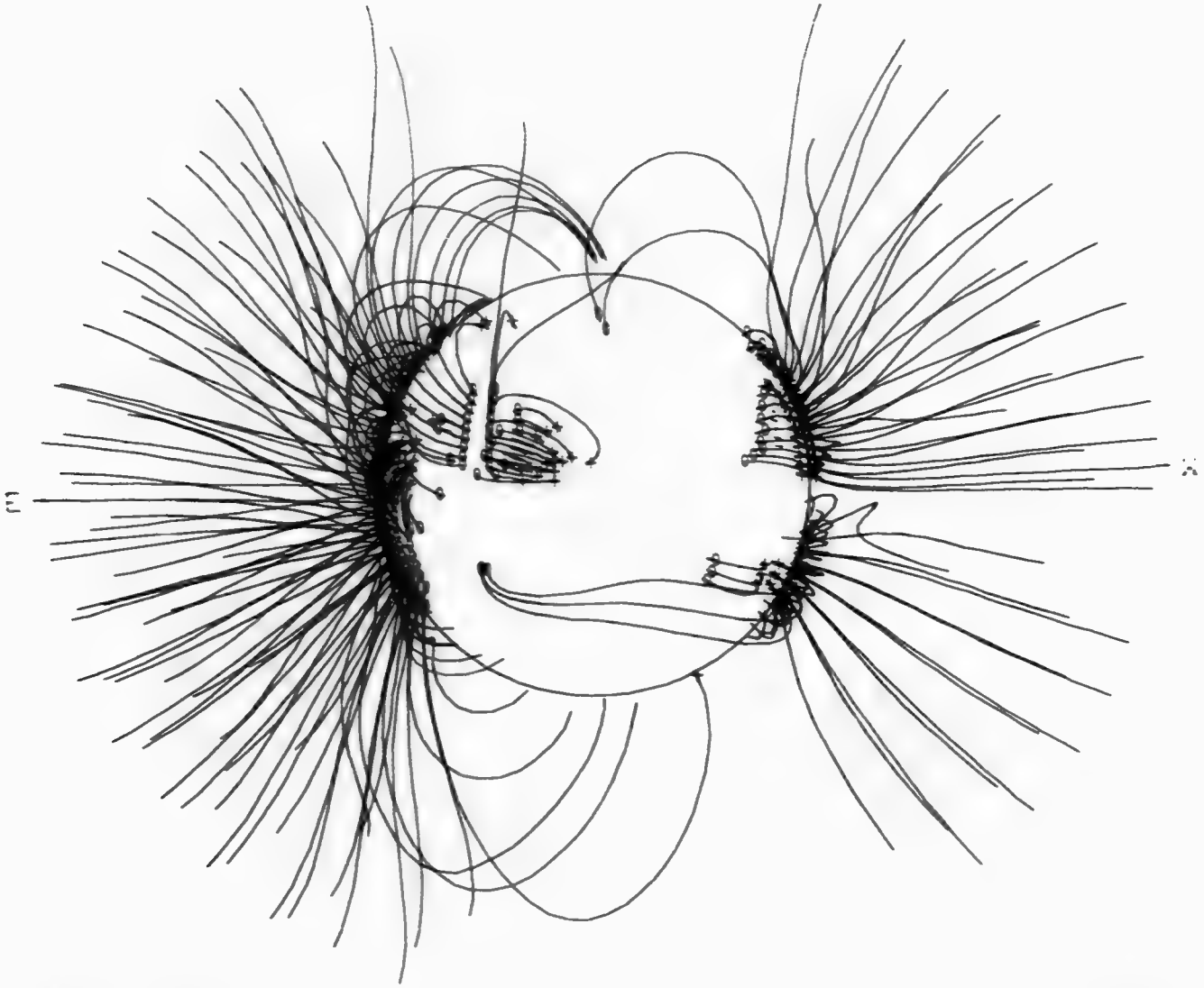
POLES DIRECT

DATA WINDOW 1559.00

ROT. 1559 LONG. 19[illegible]

30.6 MAR 197[illegible]

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



QUALITY GOOD

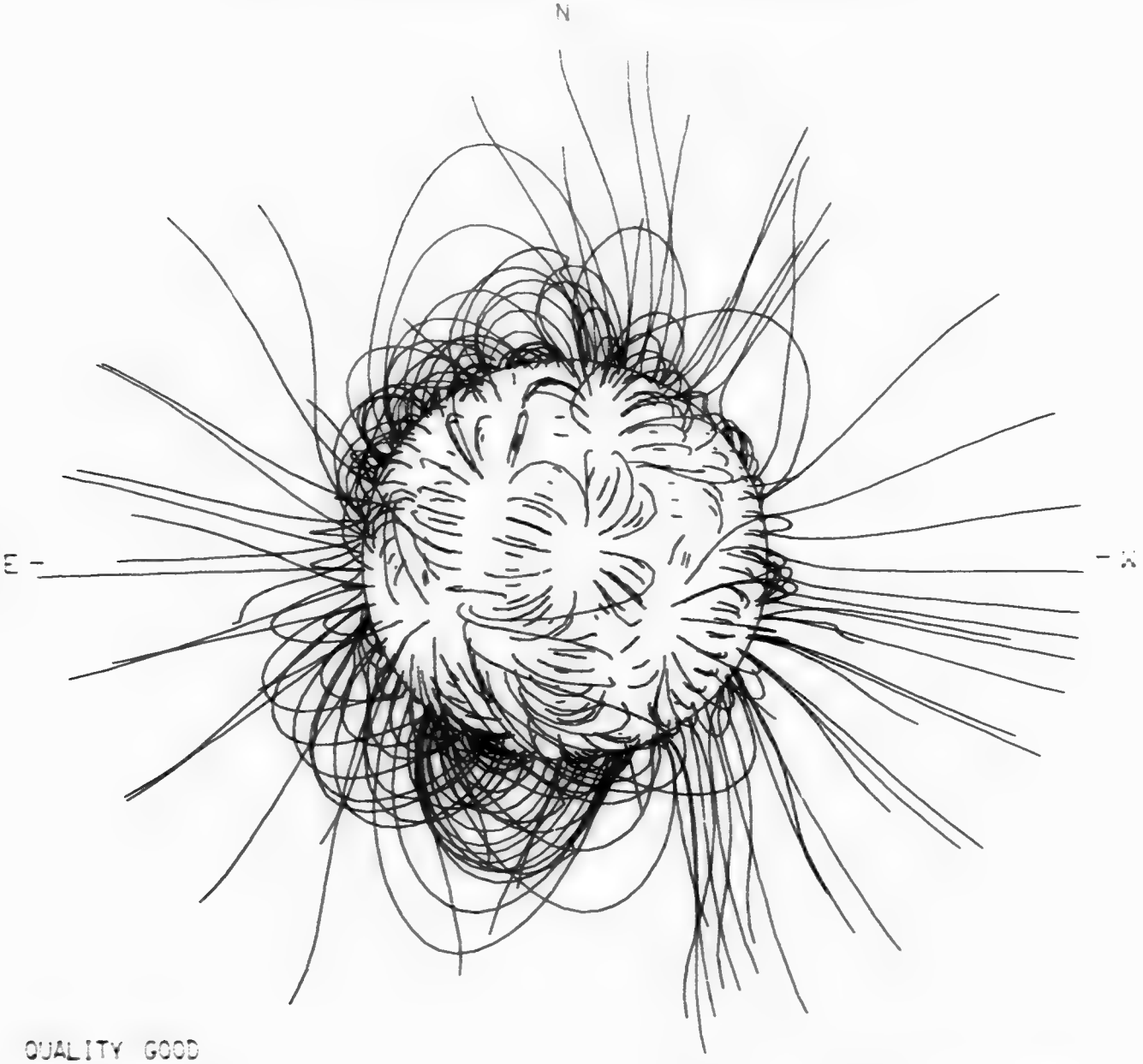
POLES DIRECT

DATA WINDOW 1559.00

ROT. 1559 LONG. 18[illegible]°

30.6 MAR 19[illegible]

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



QUALITY GOOD

POLES DIRECT

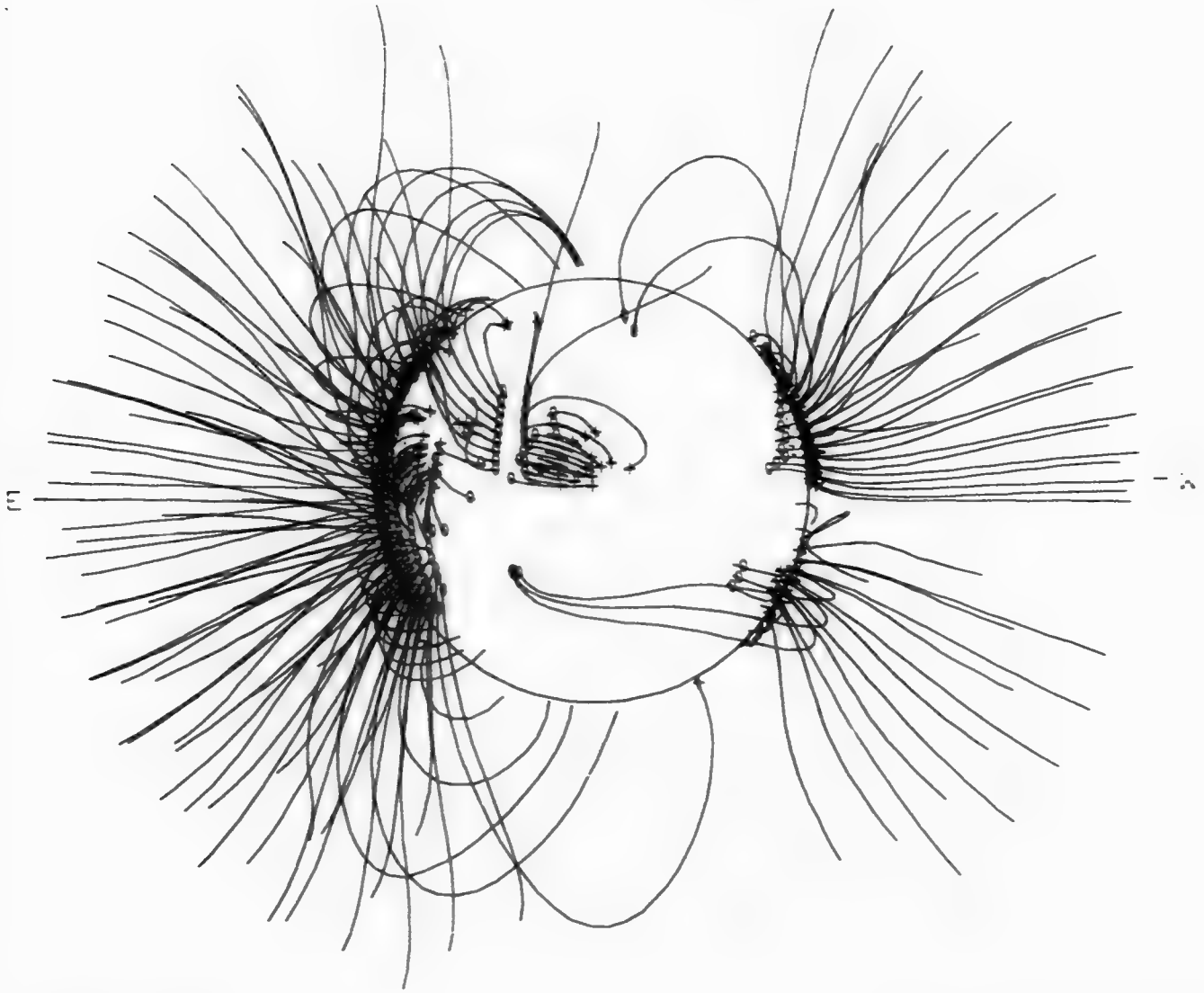
DATA WINDOW 1559.00

ROT. 1559 LONG. 17°

31.3 MAR 197?

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N



QUALITY GOOD

POLES DIRECT

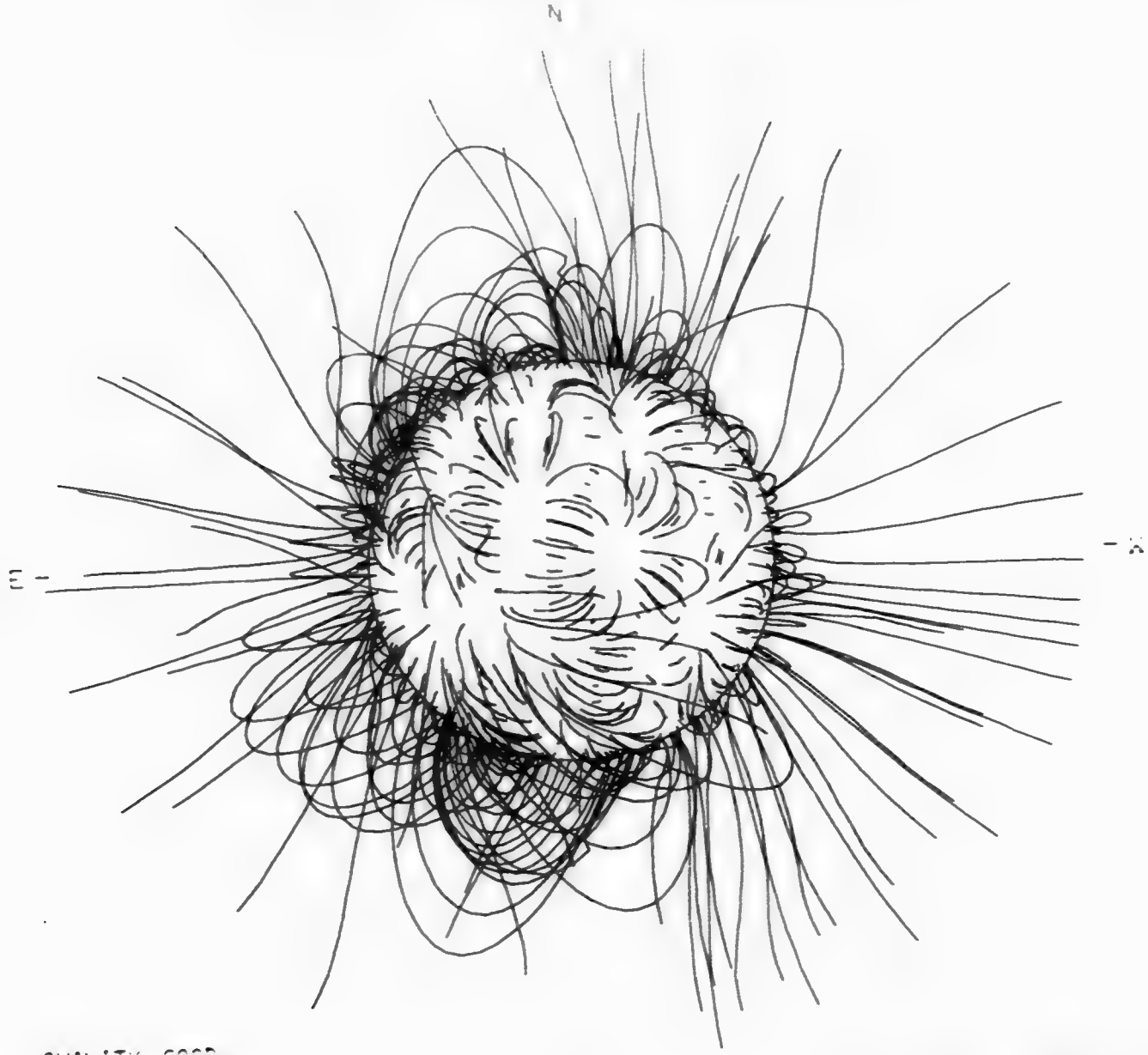
DATA WINDOW 1559.00

S

ROT. 1559 LONG. 17°

31.5 MAR 197[illegible]

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

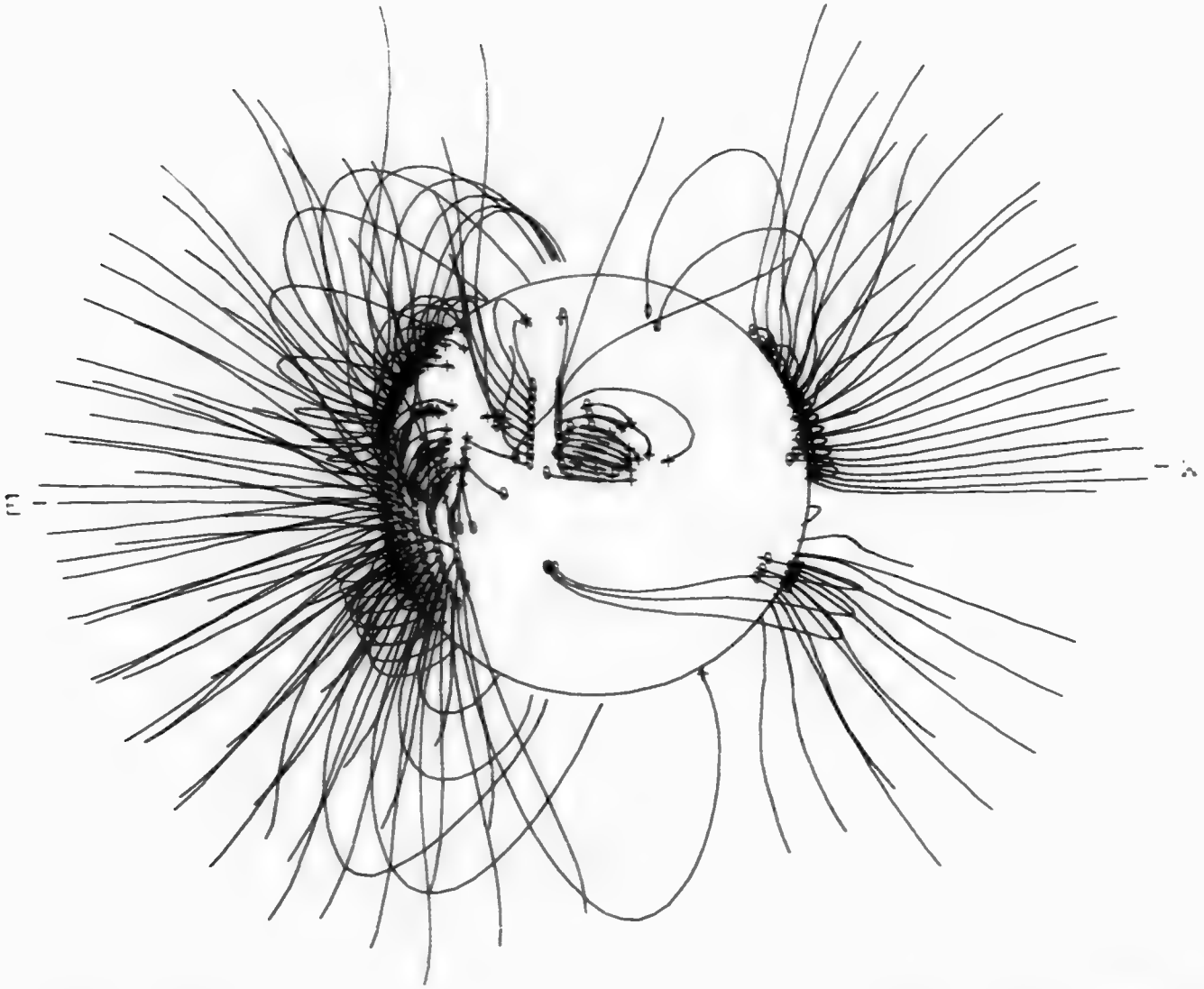


QUALITY GOOD
POLES DIRECT
DATA WINDOW 1559.00

ROT. 1559 LONG. 160°
1.1 APR 1970

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N



S

QUALITY GOOD

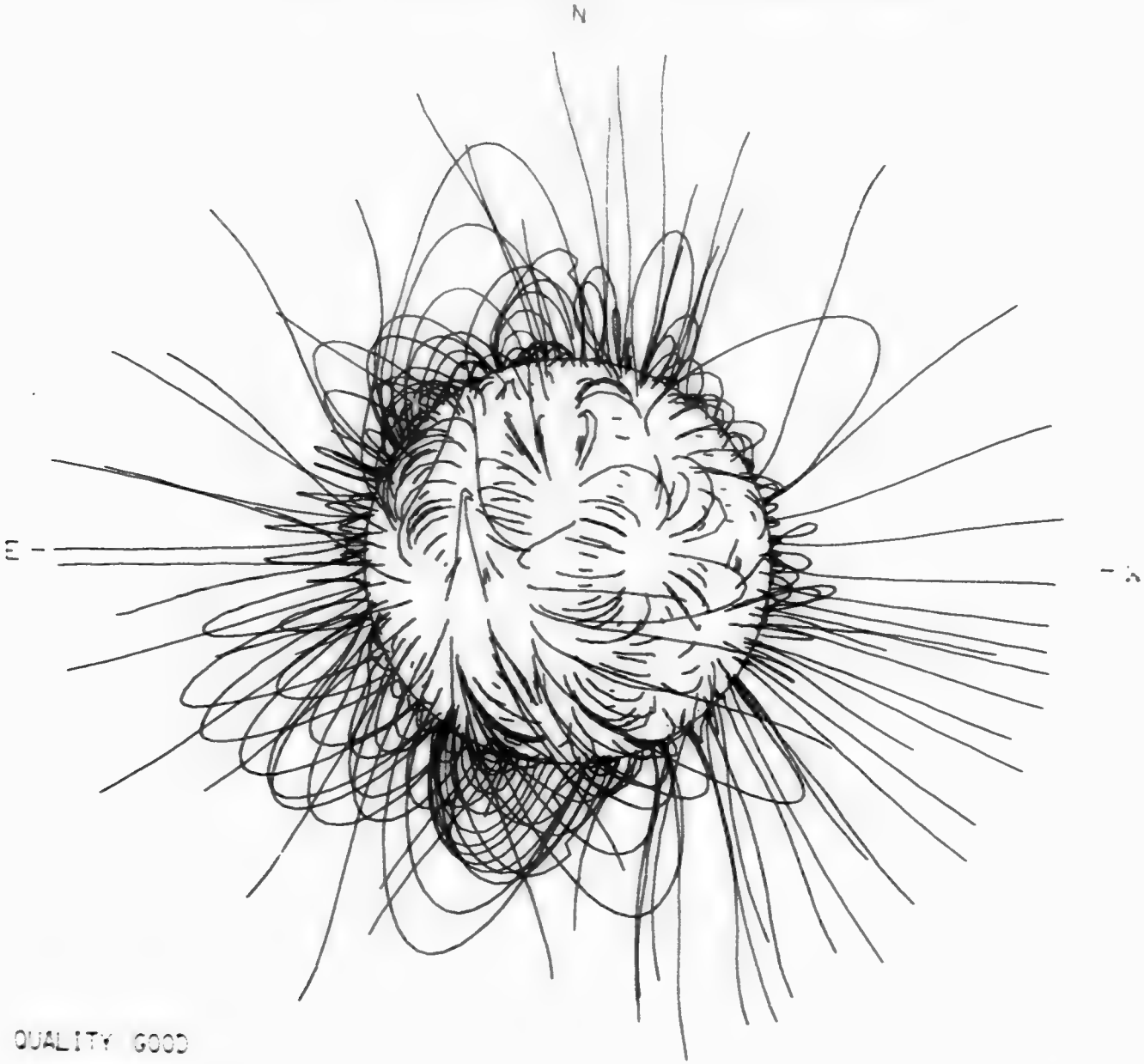
POLES DIRECT

DATA WINDOW 1559.00

ROT. 1559 LONG. 161°

1.1 APR 197?

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



QUALITY GOOD

POLES DIRECT

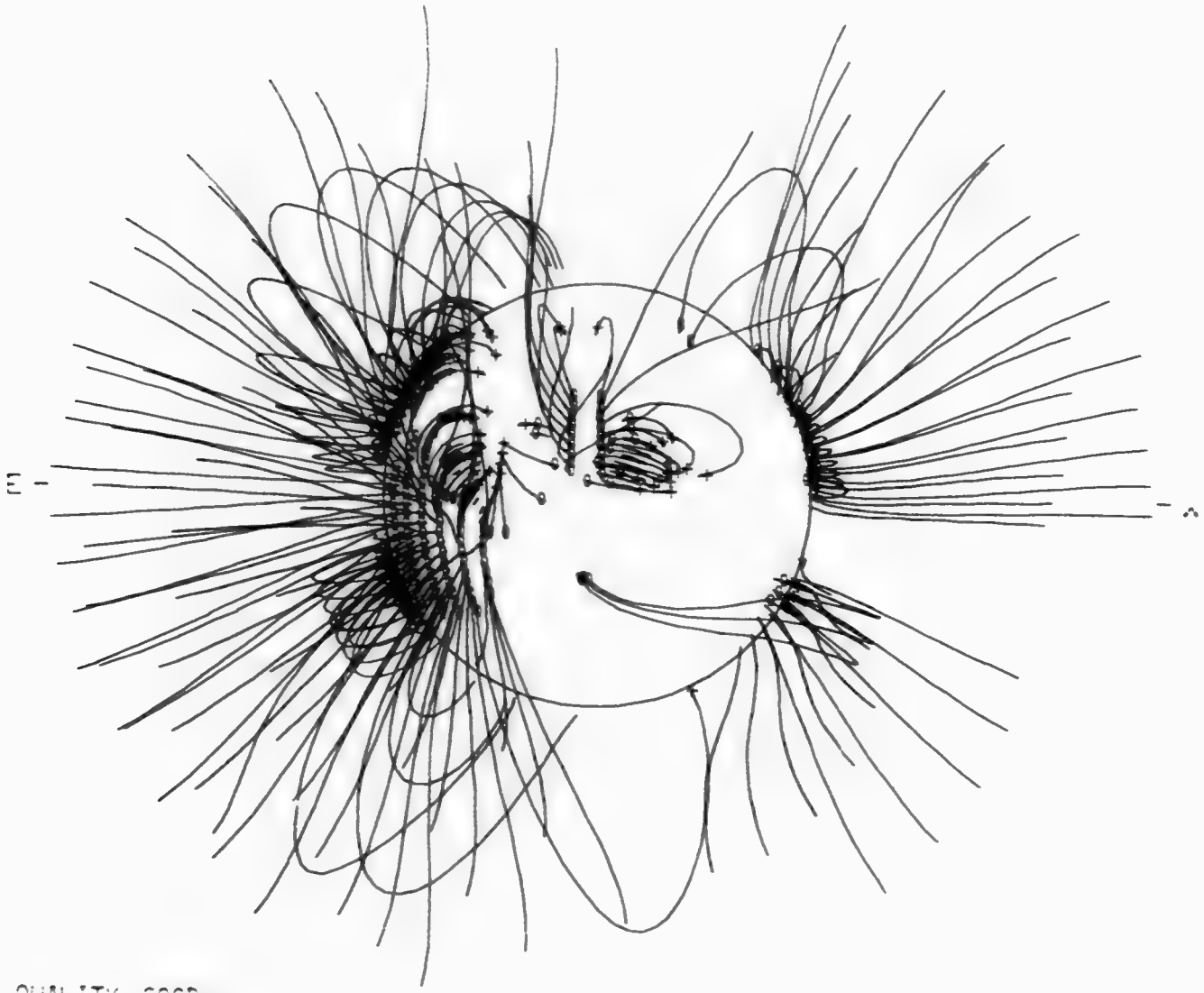
DATA WINDOW 1559.00

ROT. 1559 LONG. 15[illegible]°

1.8 APR 197[illegible]

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N



S

QUALITY GOOD

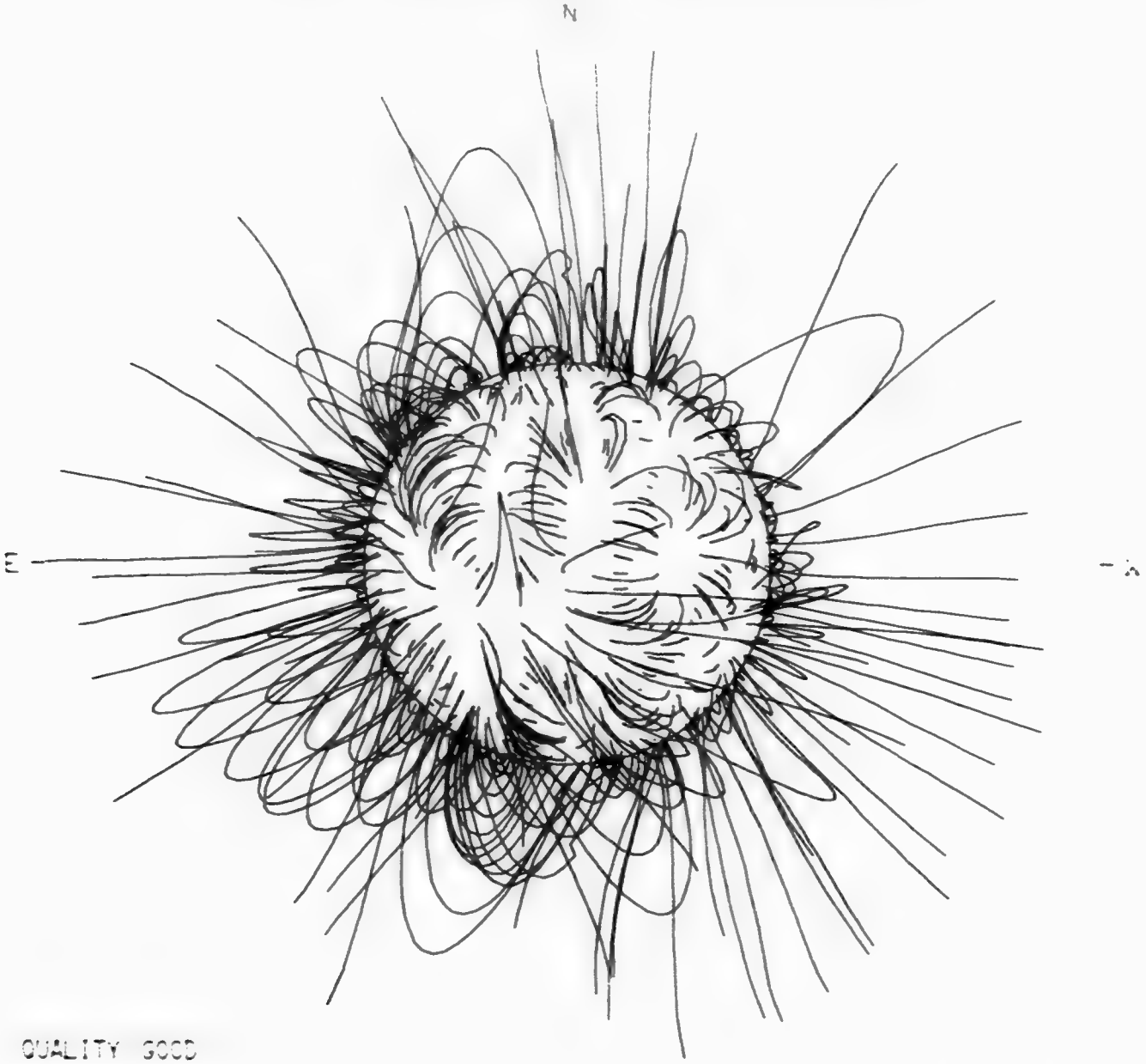
POLES DIRECT

DATA WINDOW 1559.00

ROT. 1559 LONG. 15[illegible]°

1.8 [illegible] 197[illegible]

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



QUALITY GOOD

POLES DIRECT

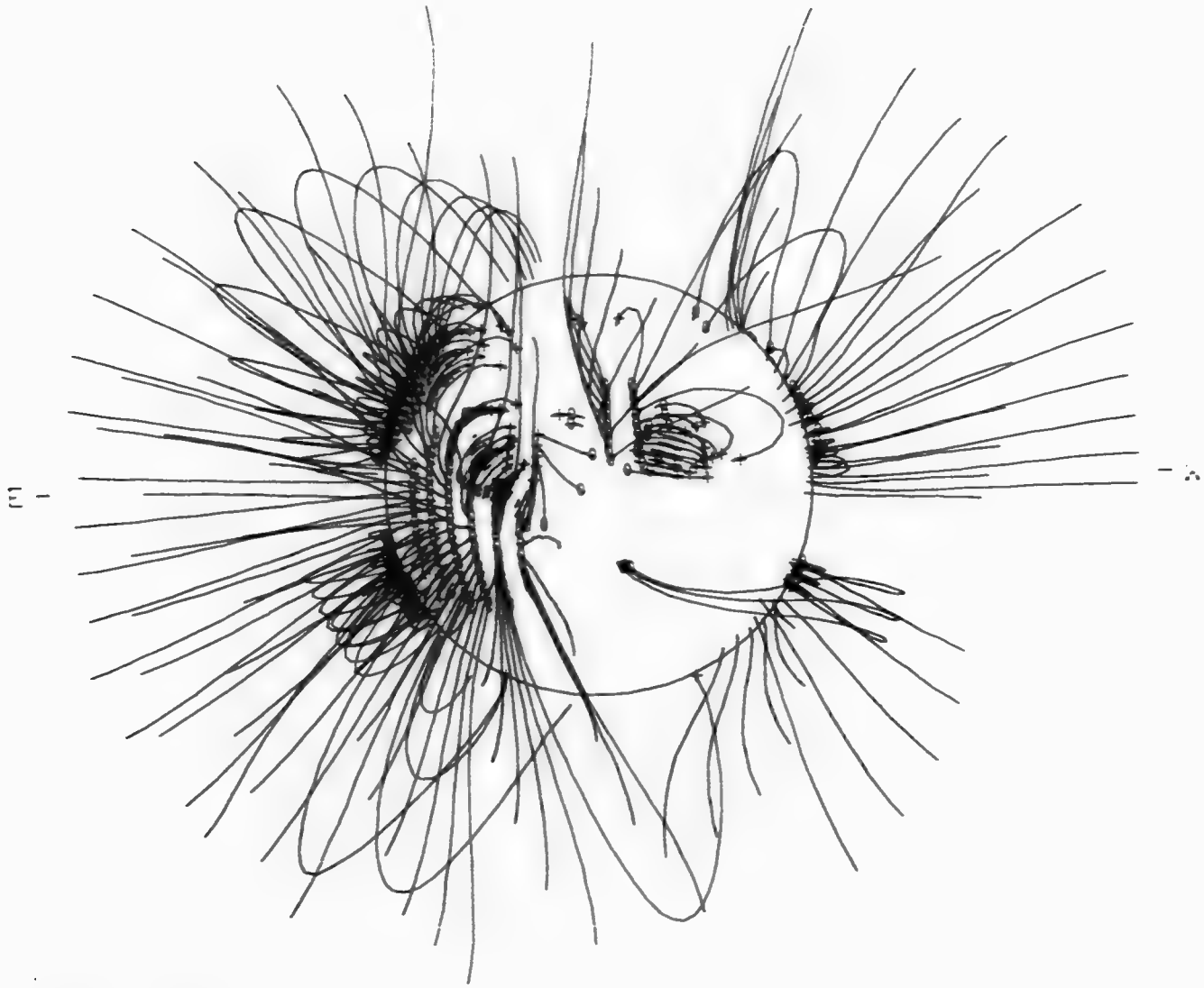
DATA WINDOW 1559.00

ROT. 1559 LONG. 142°

26 APR 1970

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N



E

A

S

QUALITY GOOD

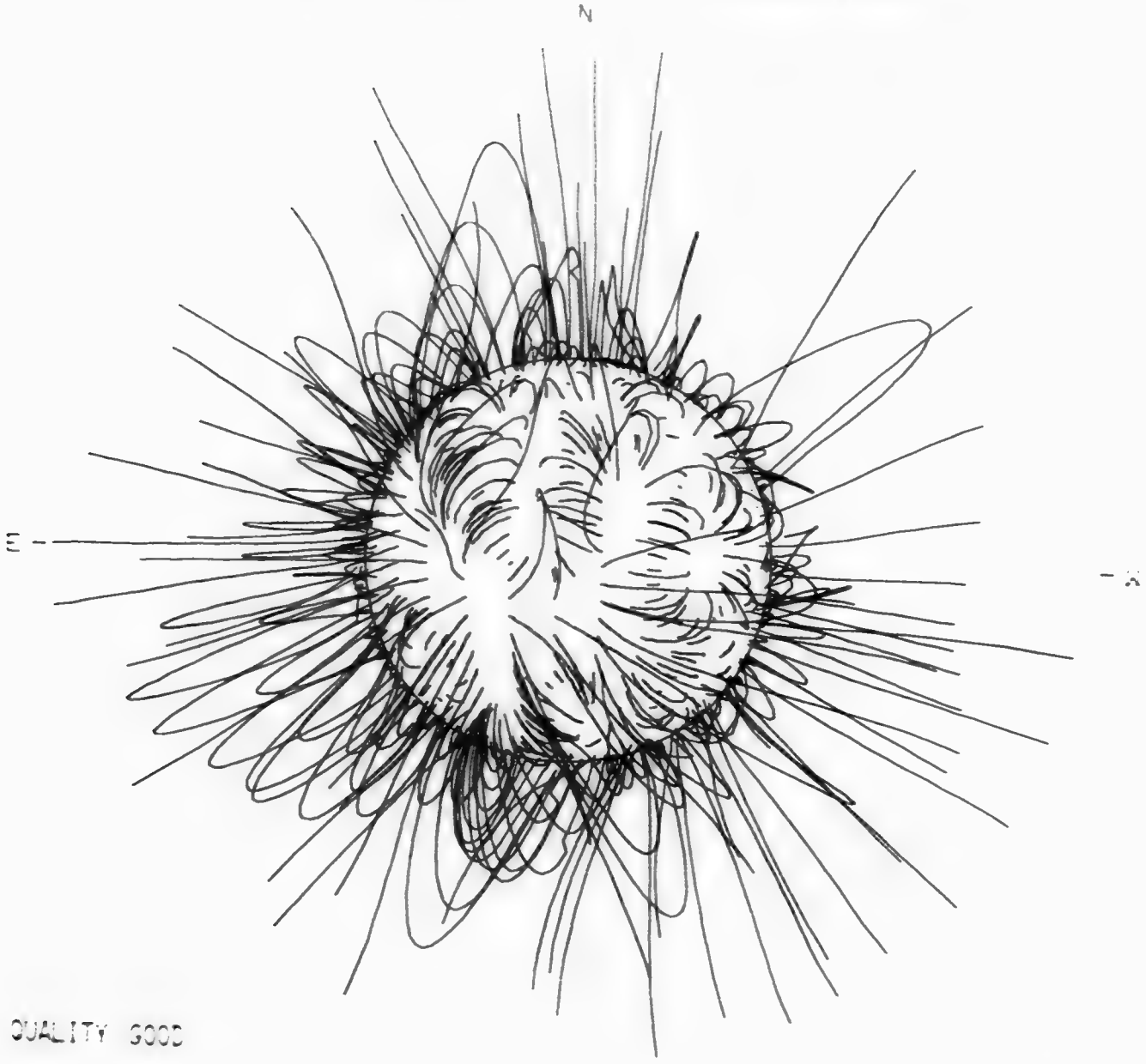
POLES DIRECT

DATA WINDOW 1559.00

ROT. 1559 LONG. 14[illegible]°

2.6 APR 197[illegible]

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



QUALITY GOOD

POLES DIRECT

DATA WINDOW 1559.00

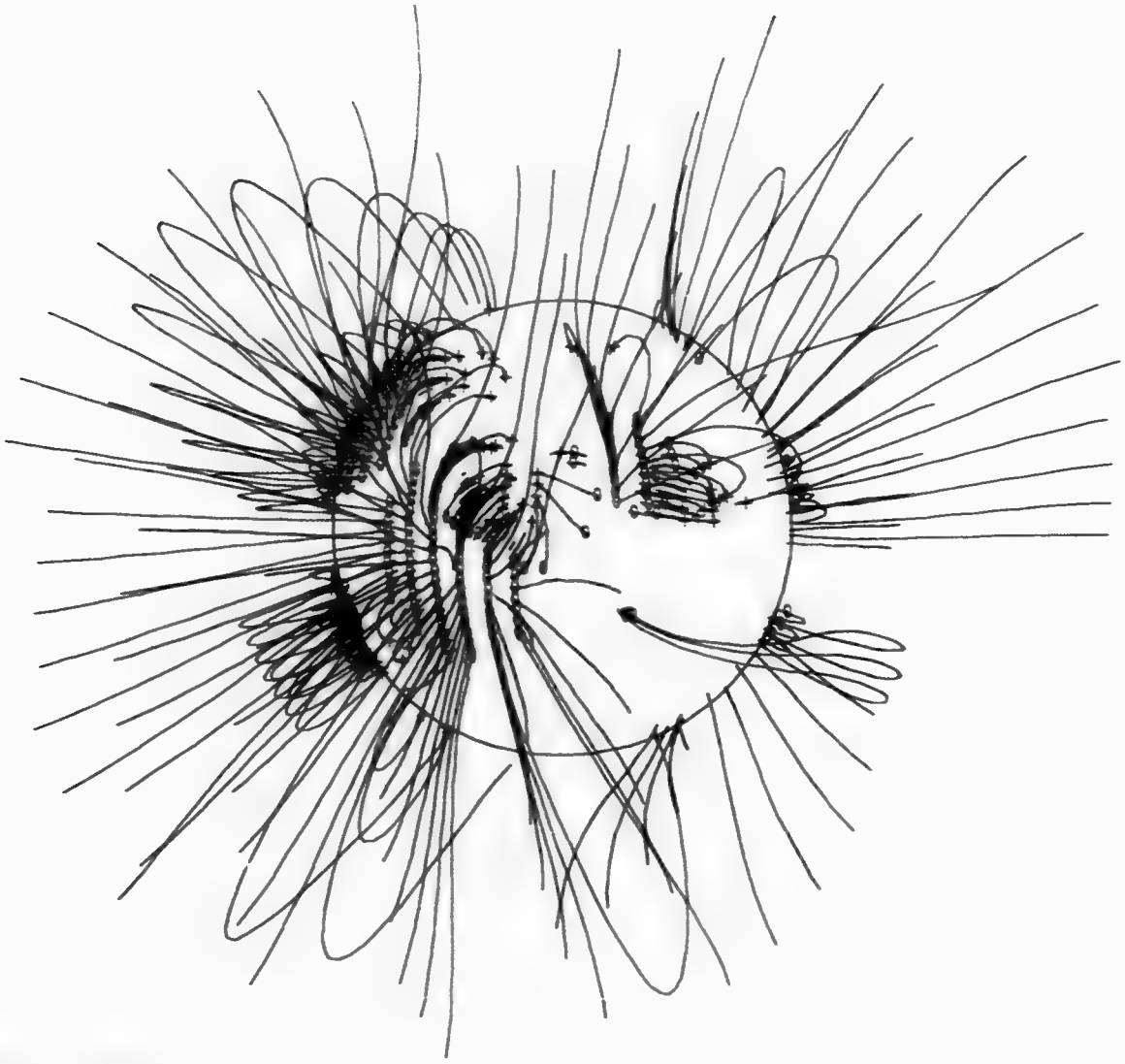
ROT. 1559 LONG. 150°

5 APR 1970

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N

E



S

QUALITY GOOD

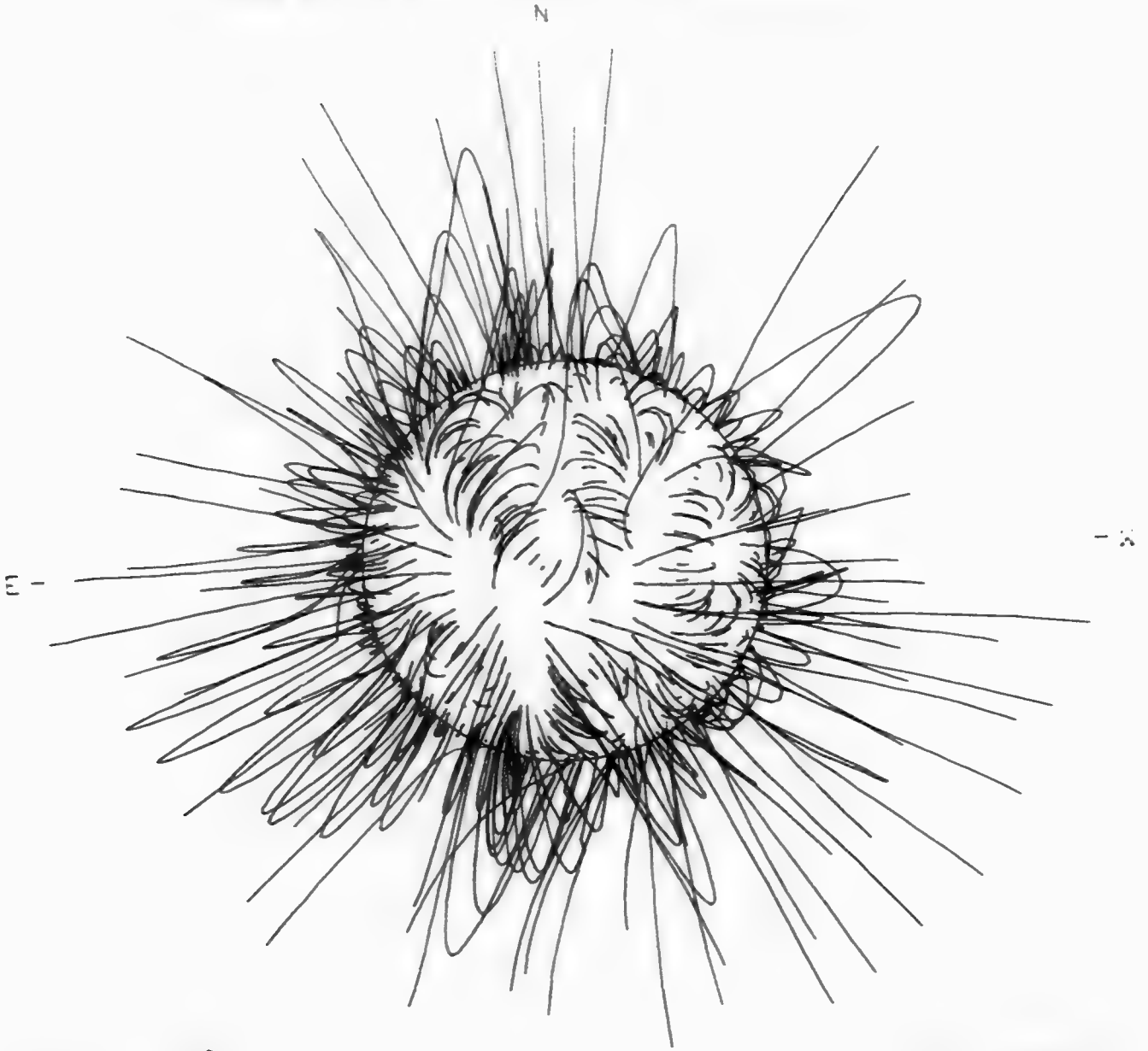
POLES DIRECT

DATA WINDOW 1559.00

ROT. 1559 LONG. 15[illegible]

3.4 APR 197[illegible]

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



QUALITY GOOD

POLES DIRECT

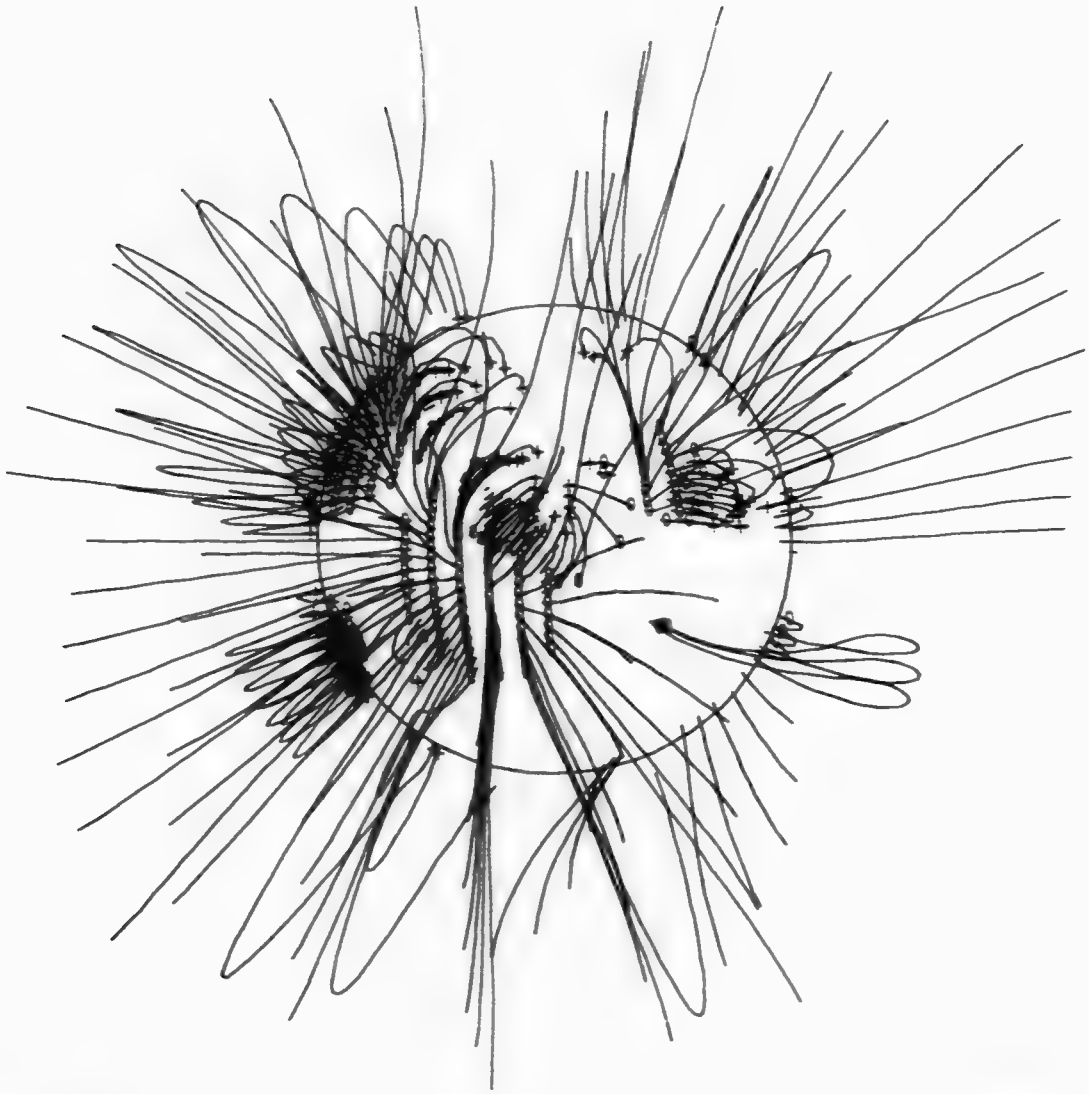
DATA WINDOW 1559.00

ROT. 1559 LONG. 12[illegible]°

[illegible] APR 197[illegible]

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N



E

A

S

QUALITY GOOD

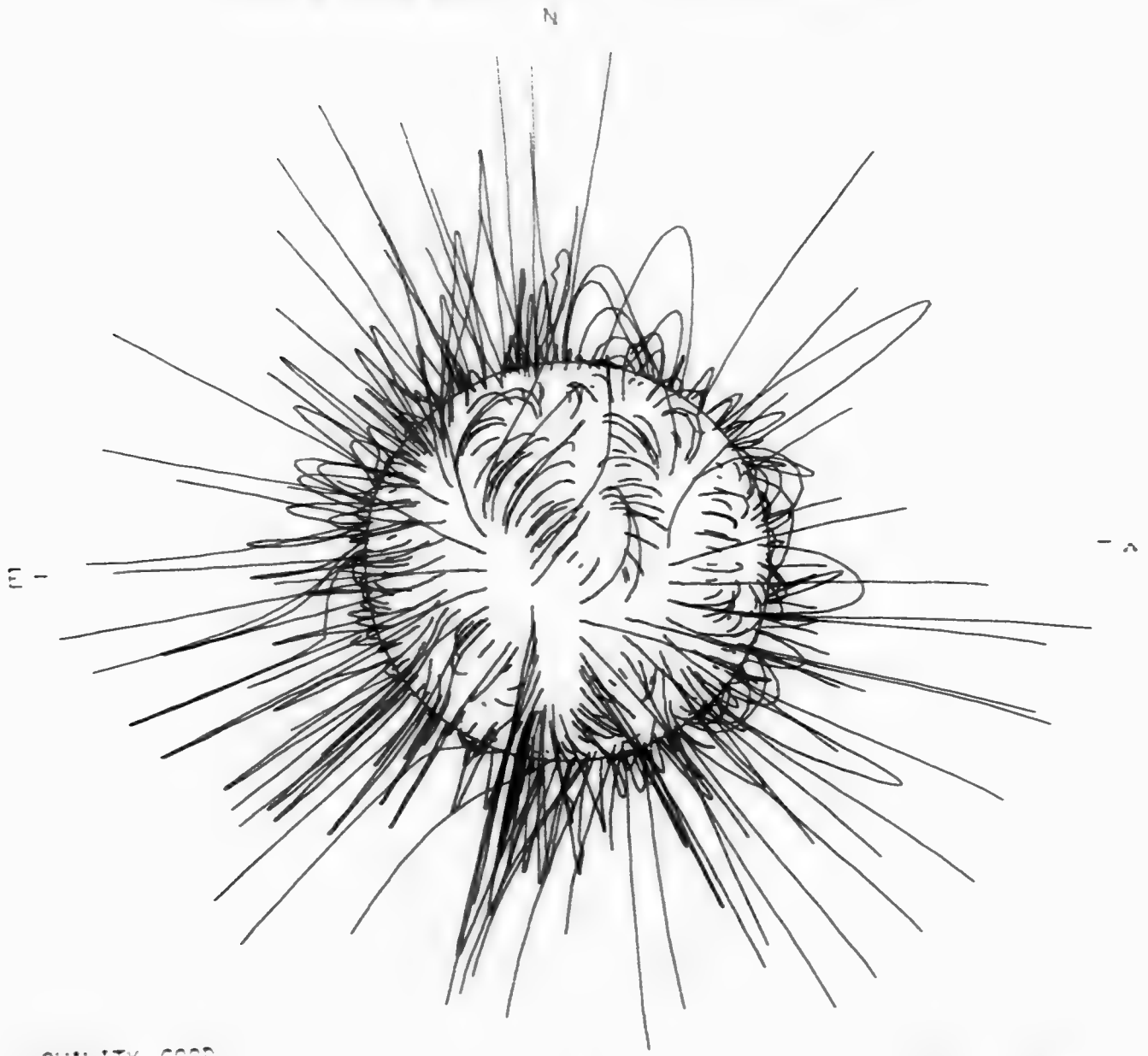
POLES DIRECT

DATA WINDOW 1559.00

ROT. 1559 LONG. 120°

4.1 APR 1972

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



QUALITY GOOD

POLES DIRECT

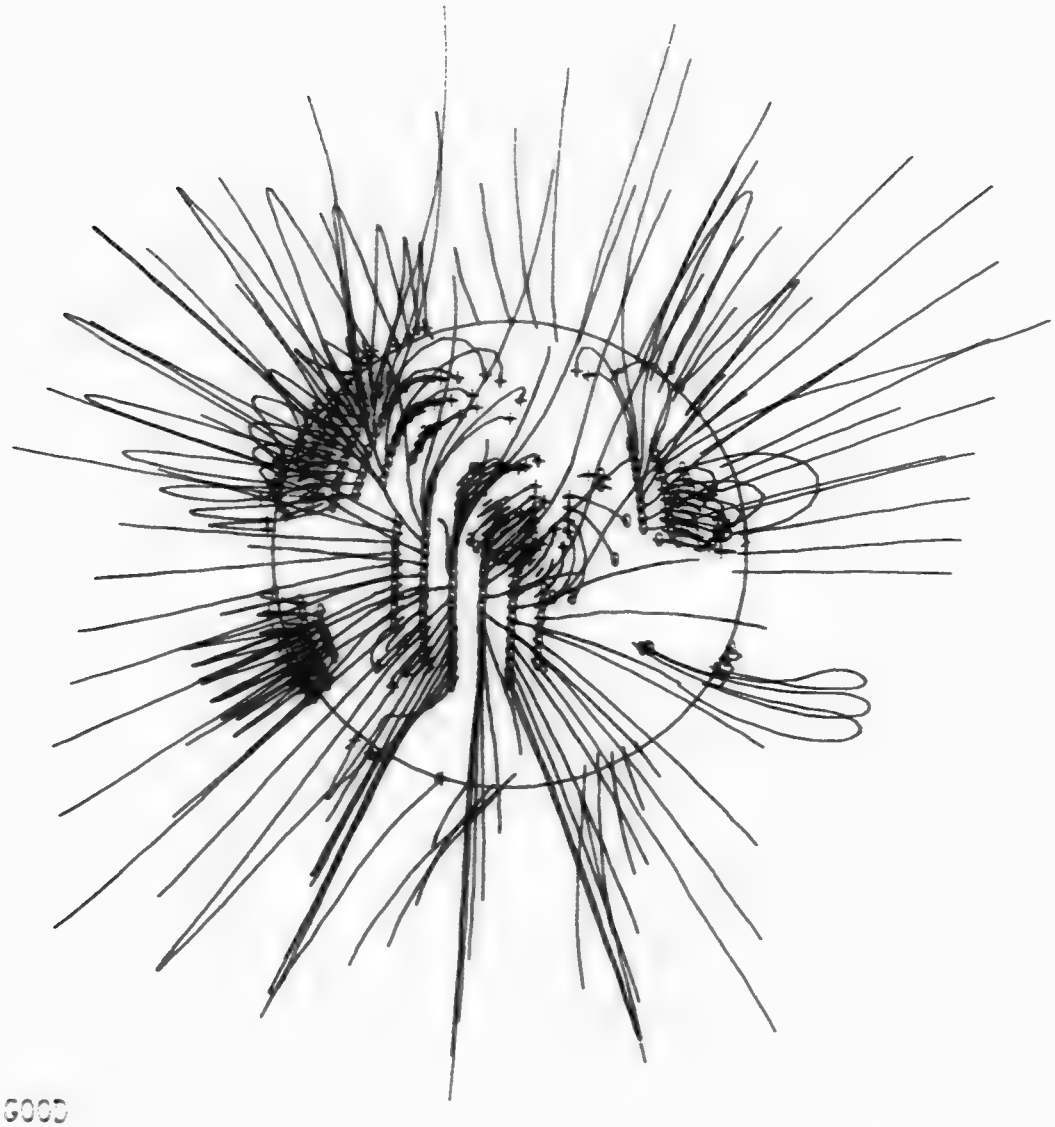
DATA WINDOW 1559.00

ROT. 1559 LONG. 11°

4.9 APR 197[illegible]

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N



E

QUALITY GOOD

POLES DIRECT

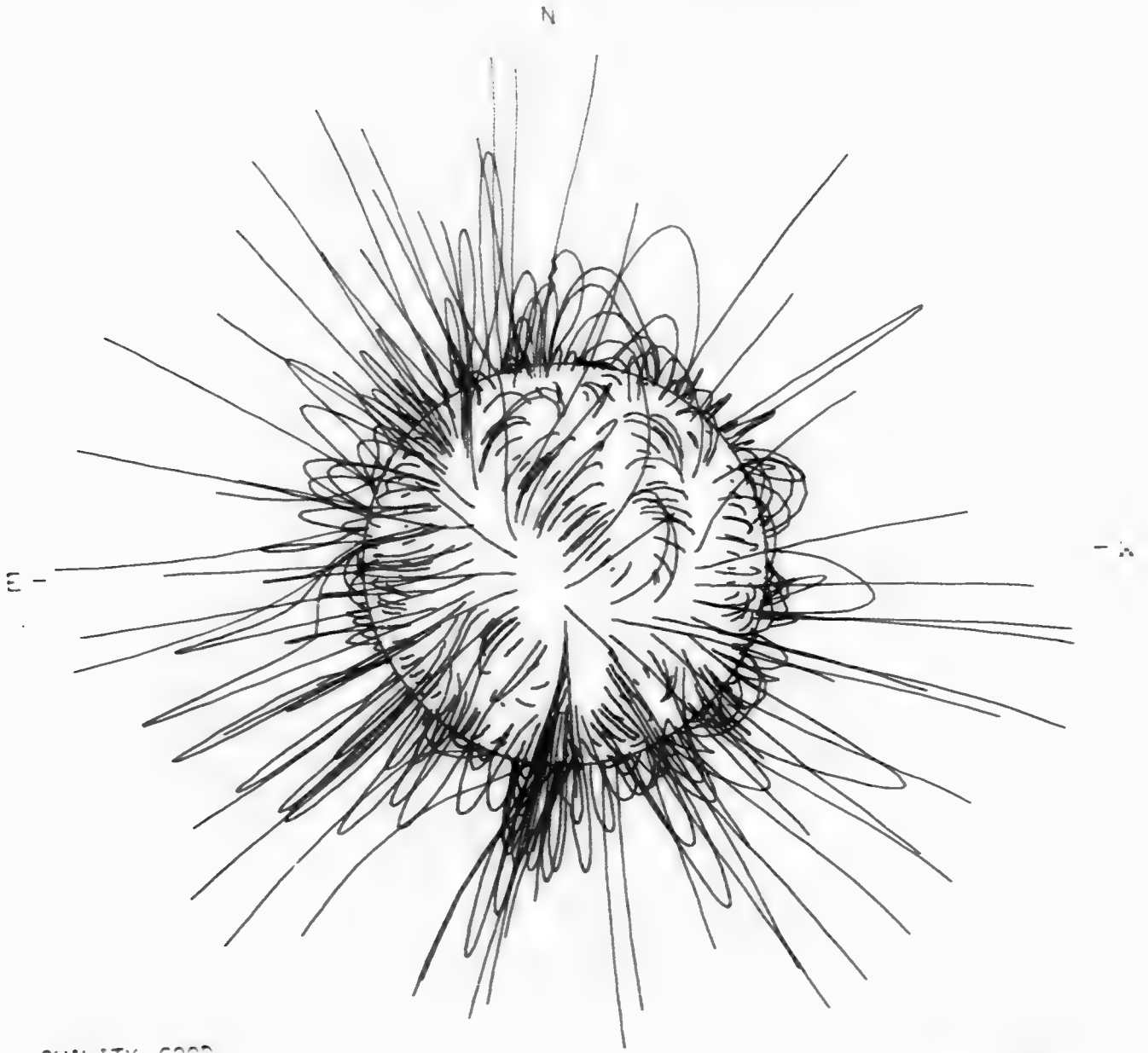
DATA WINDOW 1559.00

S

ROT. 1559 LONG. 11°

4.9 APR 1972

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



QUALITY GOOD

POLES DIRECT

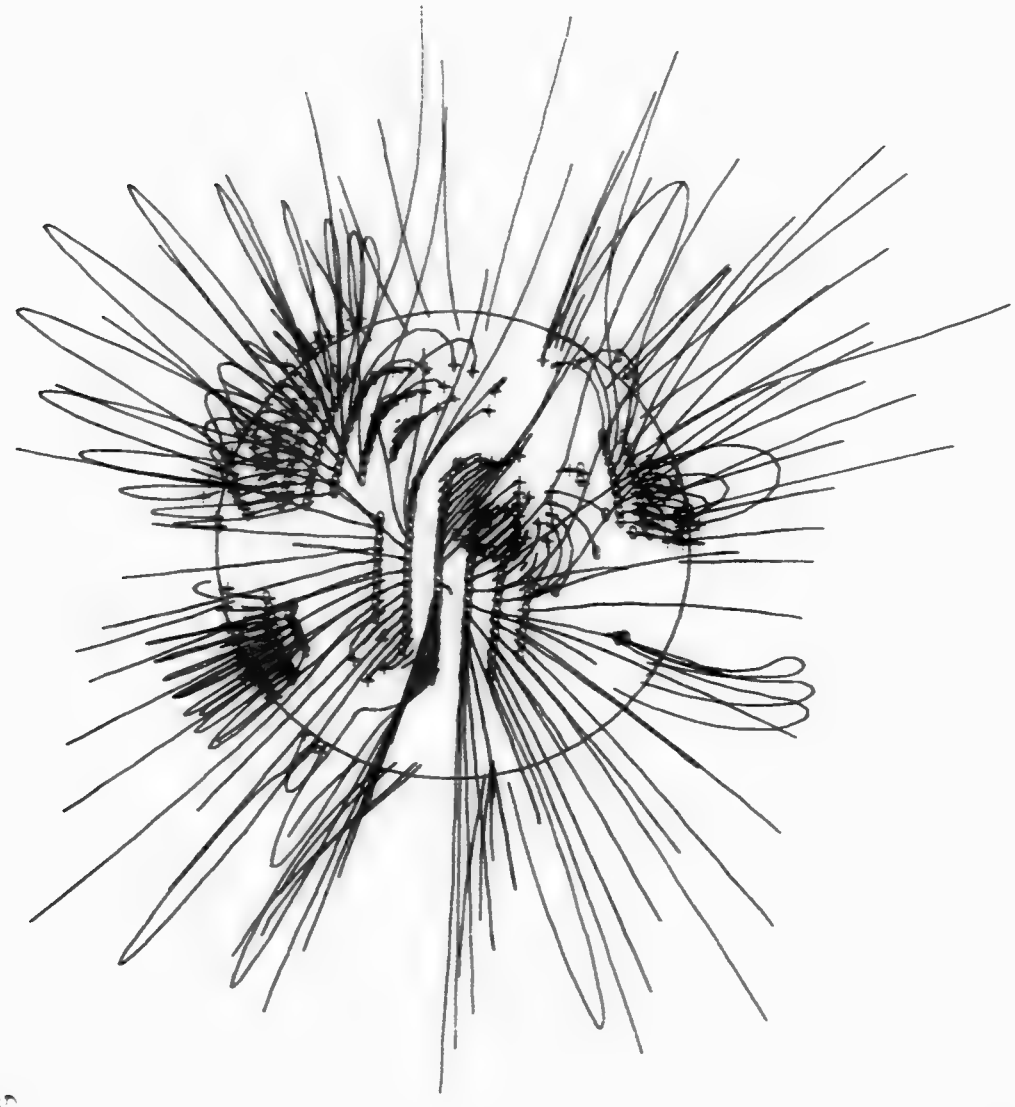
DATA WINDOW 1559.00

ROT. 1559 LONG. 1[illegible]°

5.6 APR 197[illegible]

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N



E -

- A

S

QUALITY GOOD

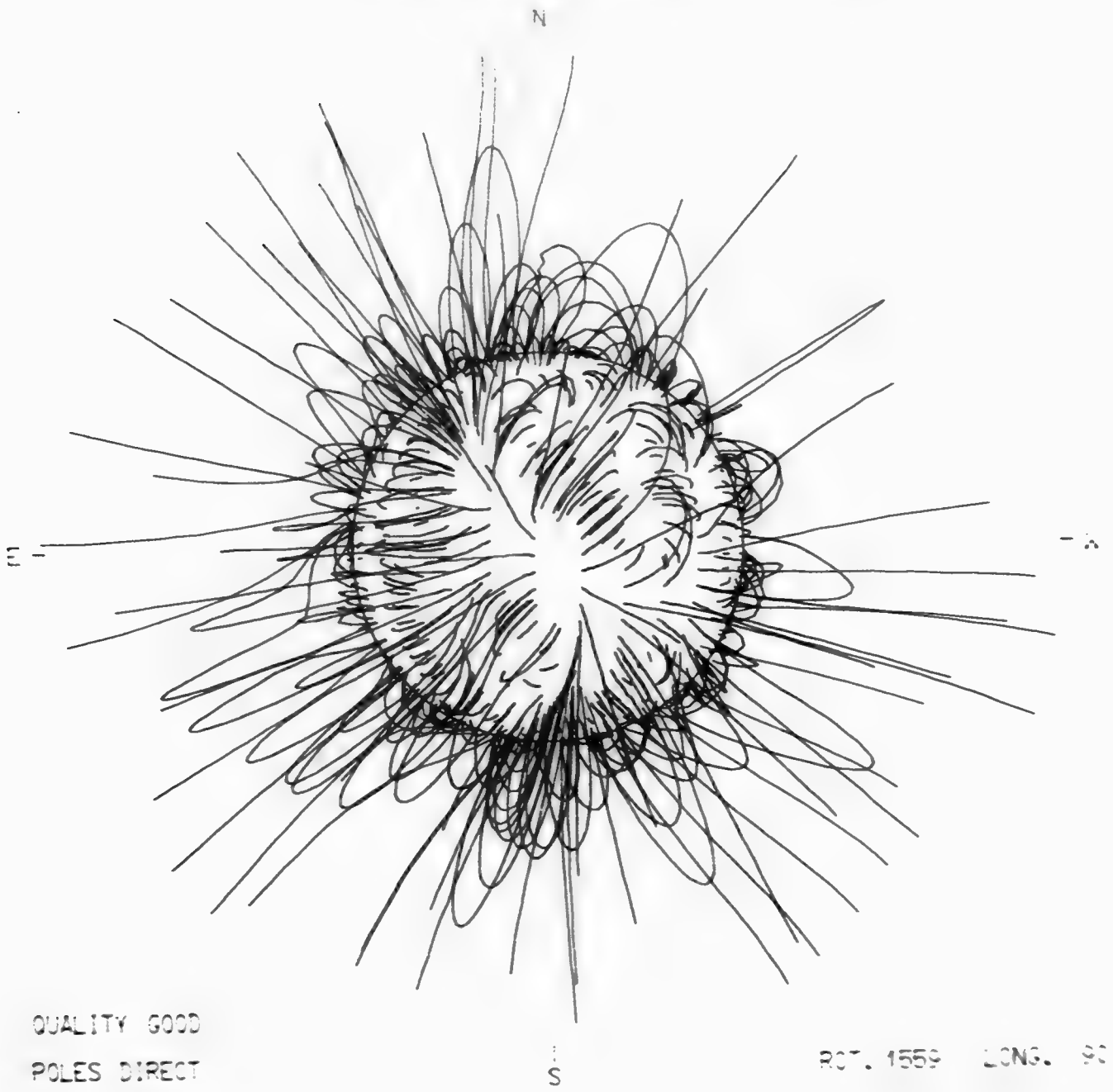
POLES DIRECT

DATA WINDOW 1559.00

ROT. 1559 LONG. 100°

5.6 APR 1972

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



QUALITY GOOD

POLES DIRECT

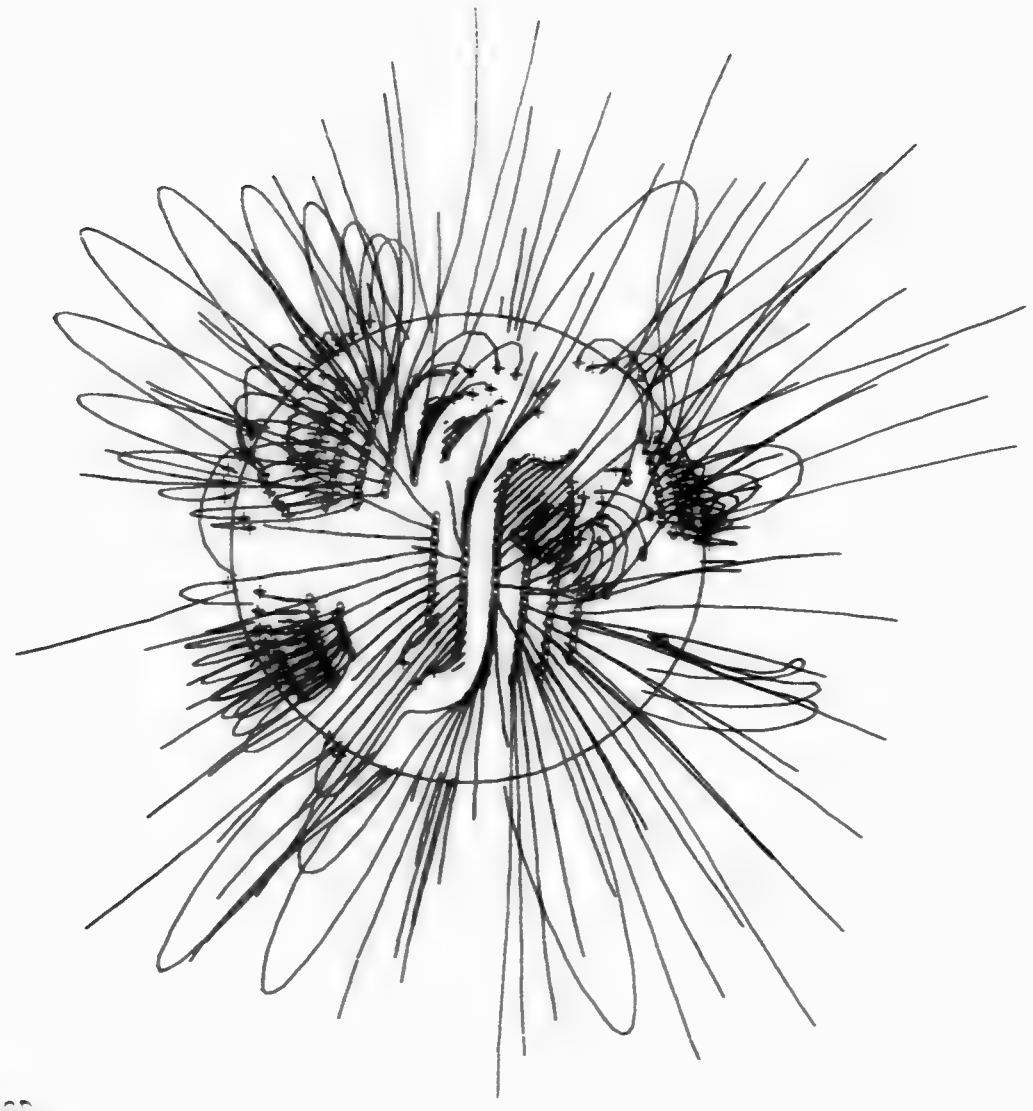
DATA WINDOW 1559.00

ROT. 1559 LONG. 90°

6.2 APR 1970

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N



E -

- A

QUALITY GOOD

POLES DIRECT

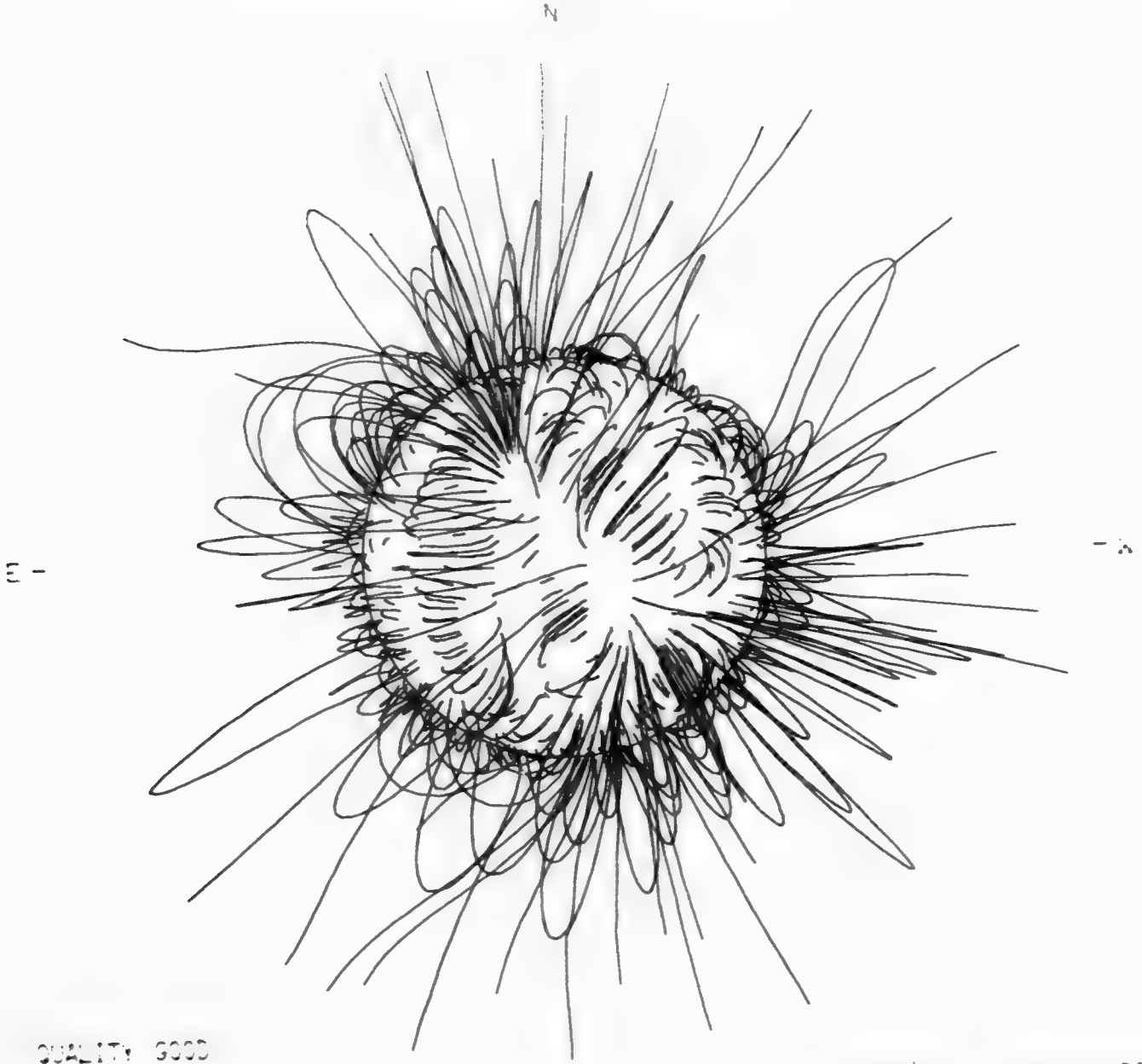
DATA WINDOW 1559.00

S

ROT. 1559 LONG. 90°

6.4 APR 1971

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



QUALITY GOOD

POLES DIRECT

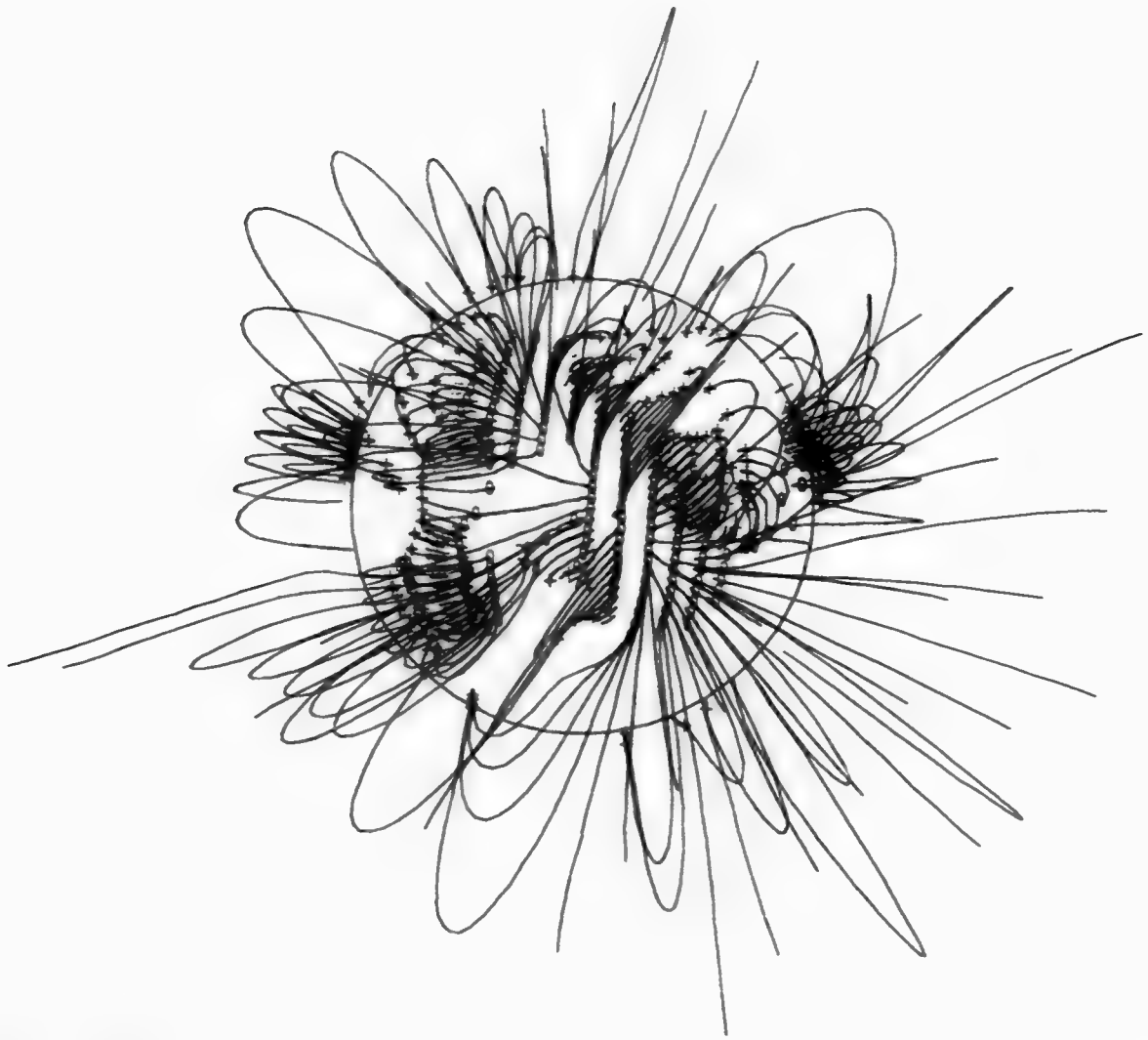
DATA WINDOW 1559.47

ROT. 1559 LONG. 80°

7.1 APR 1970

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N



E

A

S

QUALITY GOOD

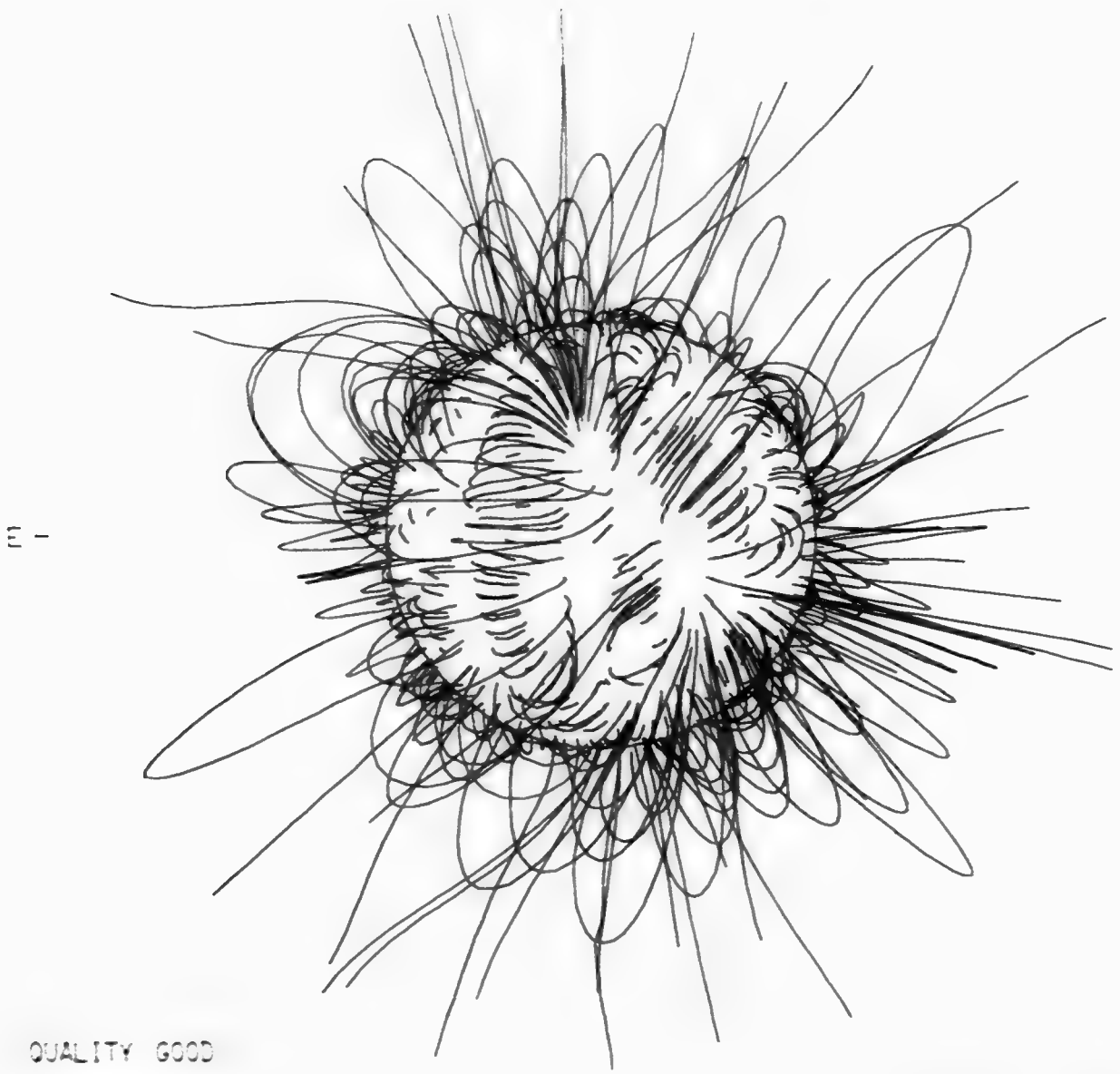
POLES DIRECT

DATA WINDOW 1559.47

ROT. 1559 LONG. 81°

7.1 APR 197[illegible]

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



QUALITY GOOD

POLES DIRECT

DATA WINDOW 1559.47

ROT. 1559 LONG. 70°

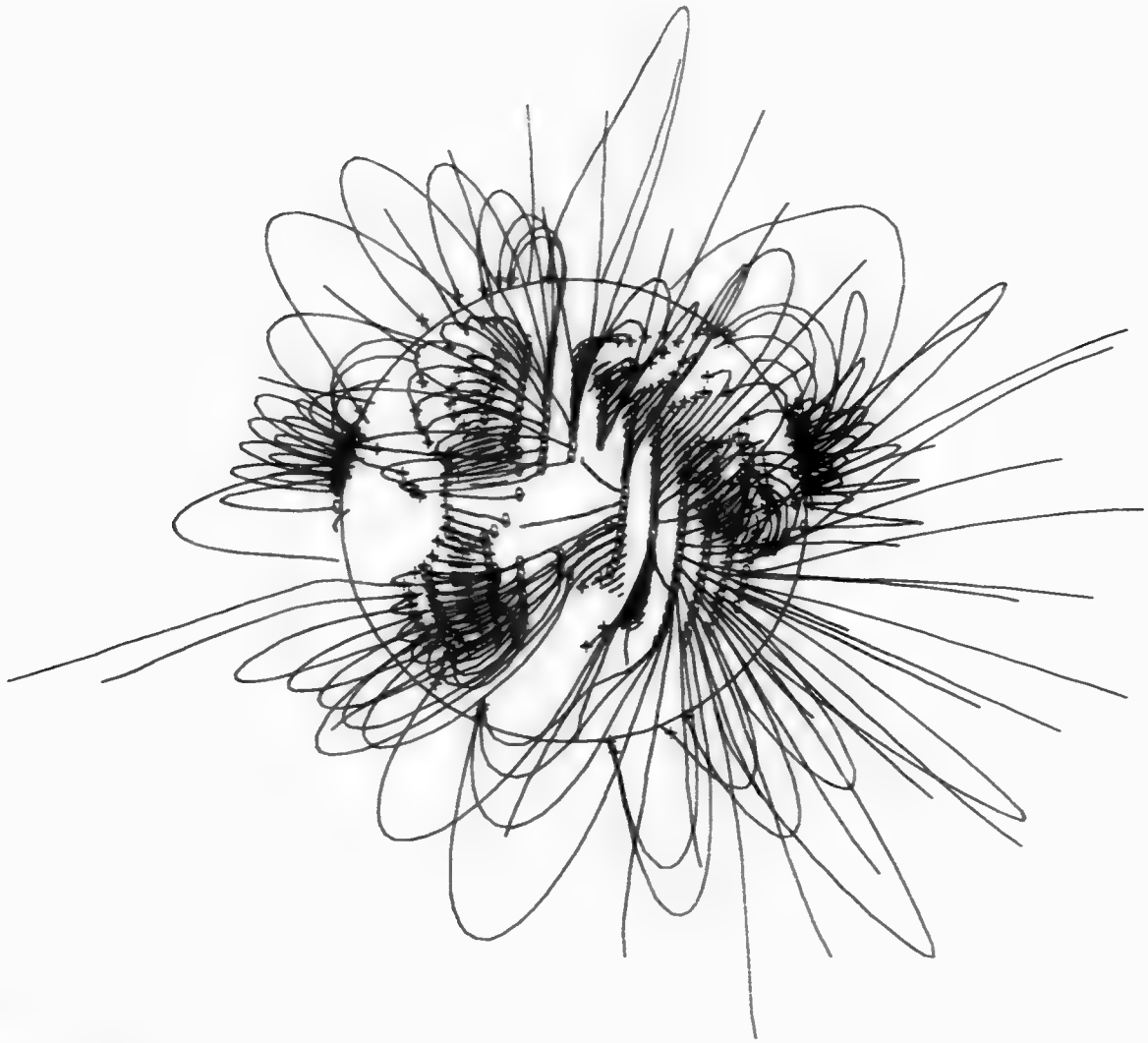
7.9 APR 1970

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N

E

W



S

QUALITY GOOD

POLES DIRECT

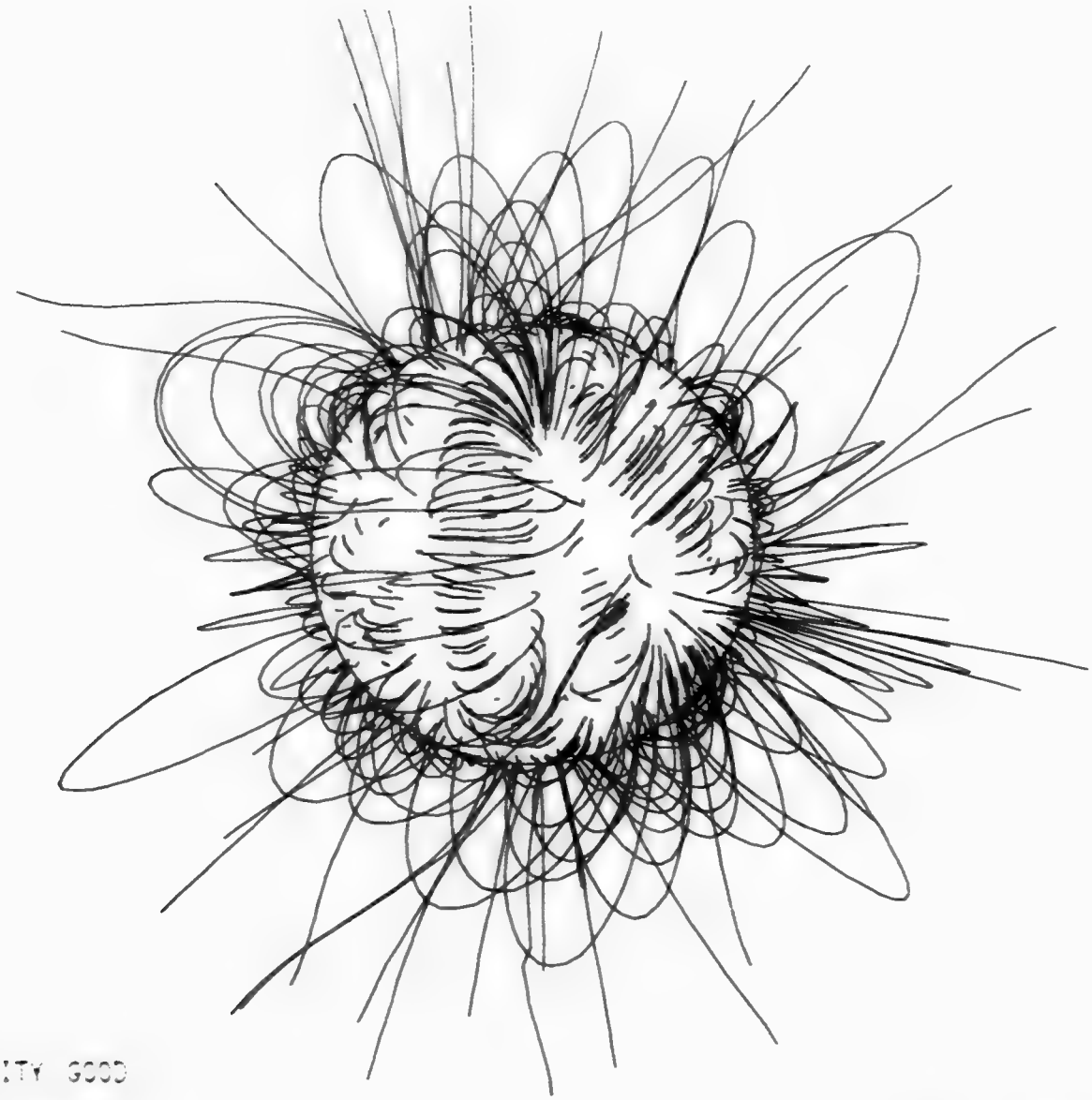
DATA WINDOW 1559.47

ROT. 1559 LONG. [illegible]°

[illegible] APR 197[illegible]

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N



E

W

S

QUALITY GOOD

POLES DIRECT

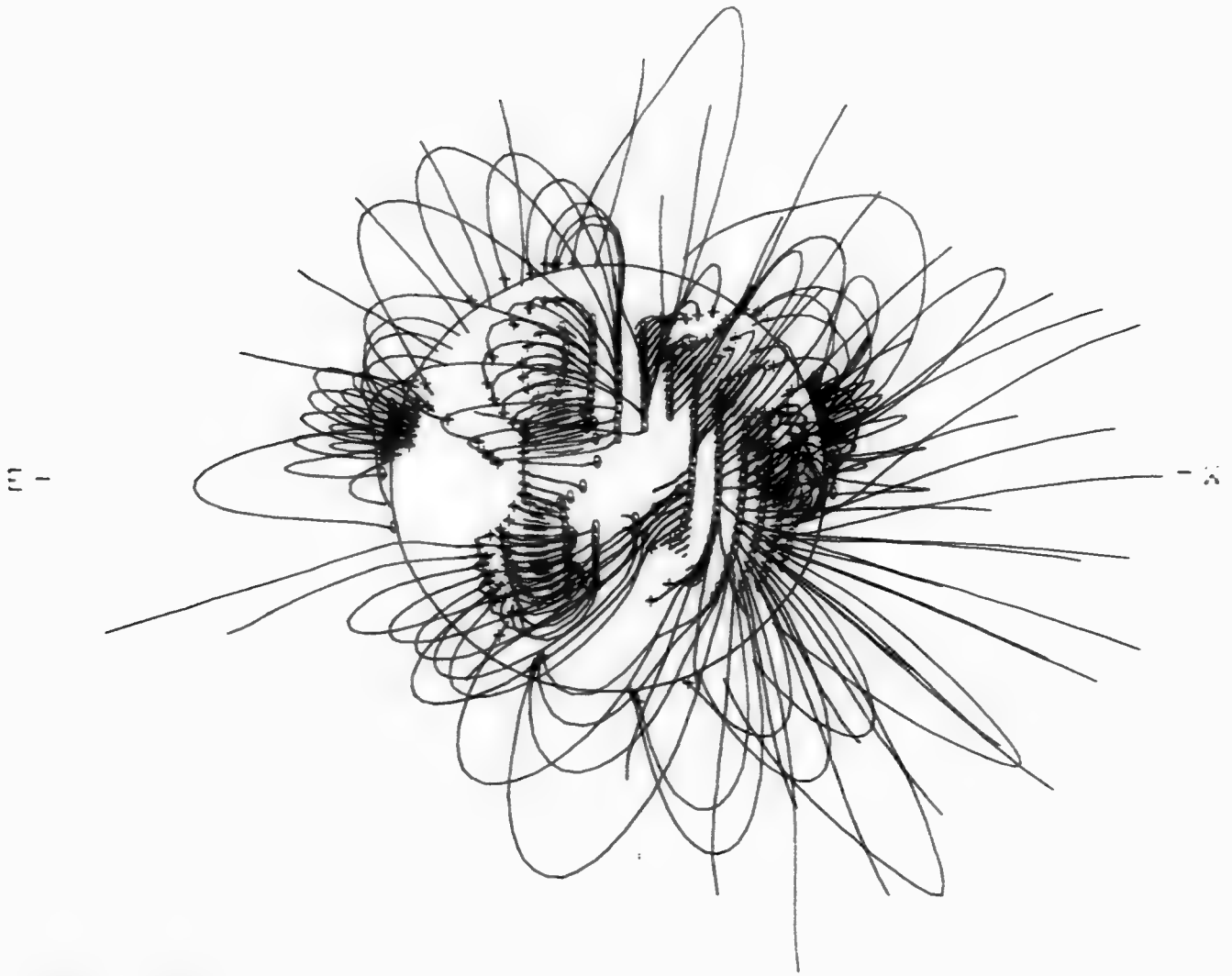
DATA WINDOW 1559.47

ROT. 1559 LONG. 0°

B.T. APR 1970

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N



E

W

S

QUALITY GOOD

POLES DIRECT

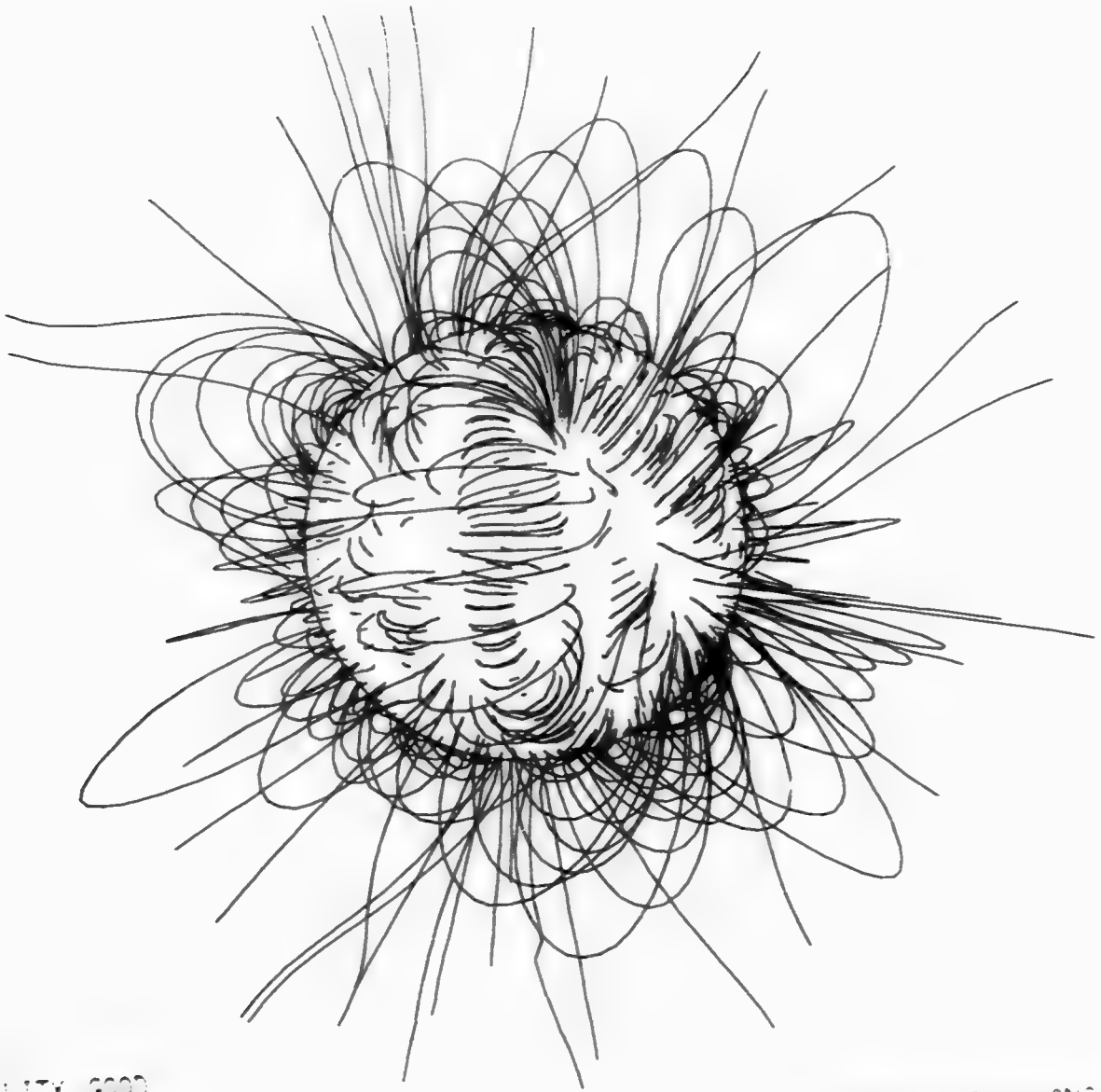
DATA WINDOW 1559.47

ROT. 1559 LONG. 60°

8.7 APR 197?

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N



E

A

S

QUALITY GOOD

POLES DIRECT

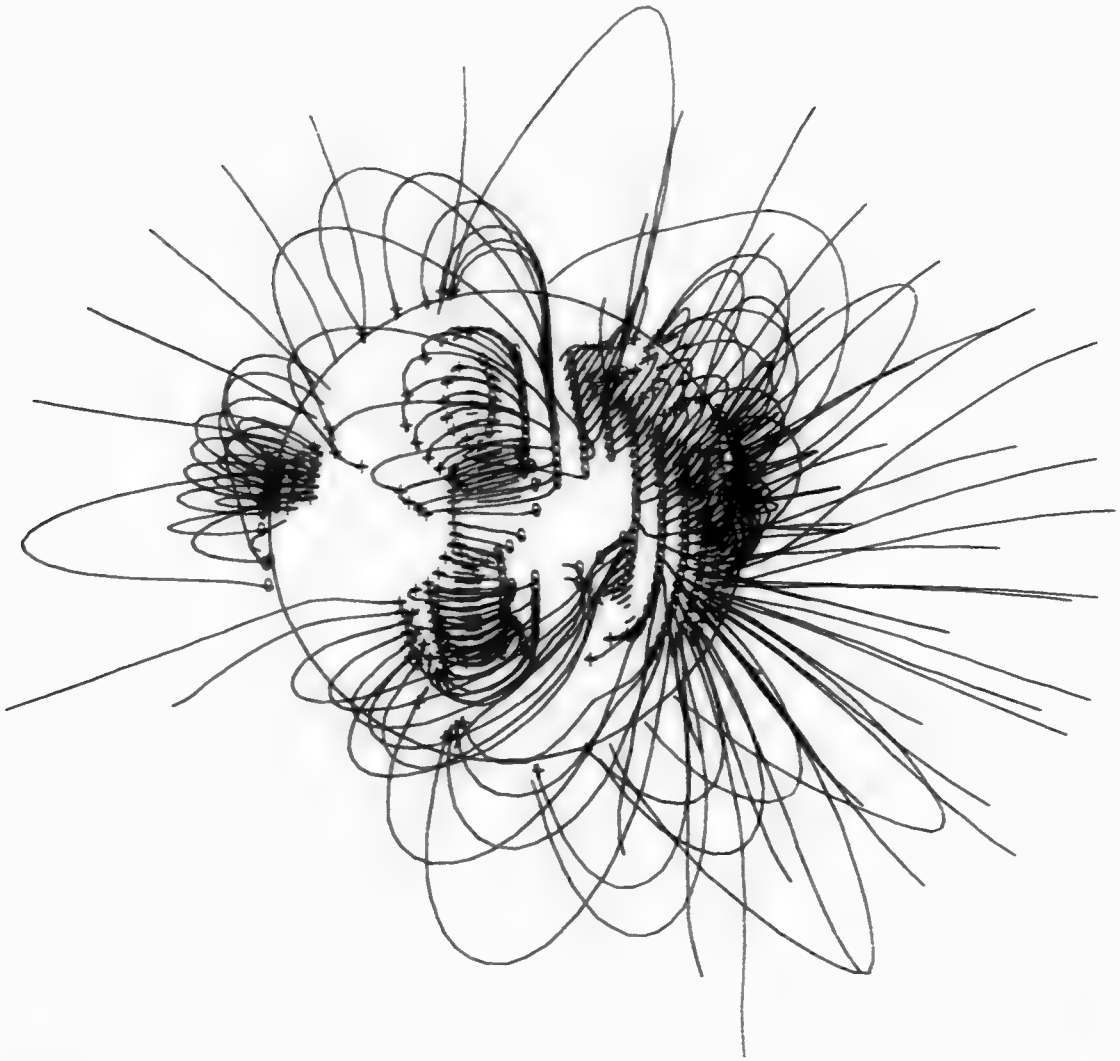
DATA WINDOW 1559.47

ROT. 1559 LONG. 5[illegible]°

[illegible] APR 197[illegible]

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N



E

A

QUALITY GOOD

POLES DIRECT

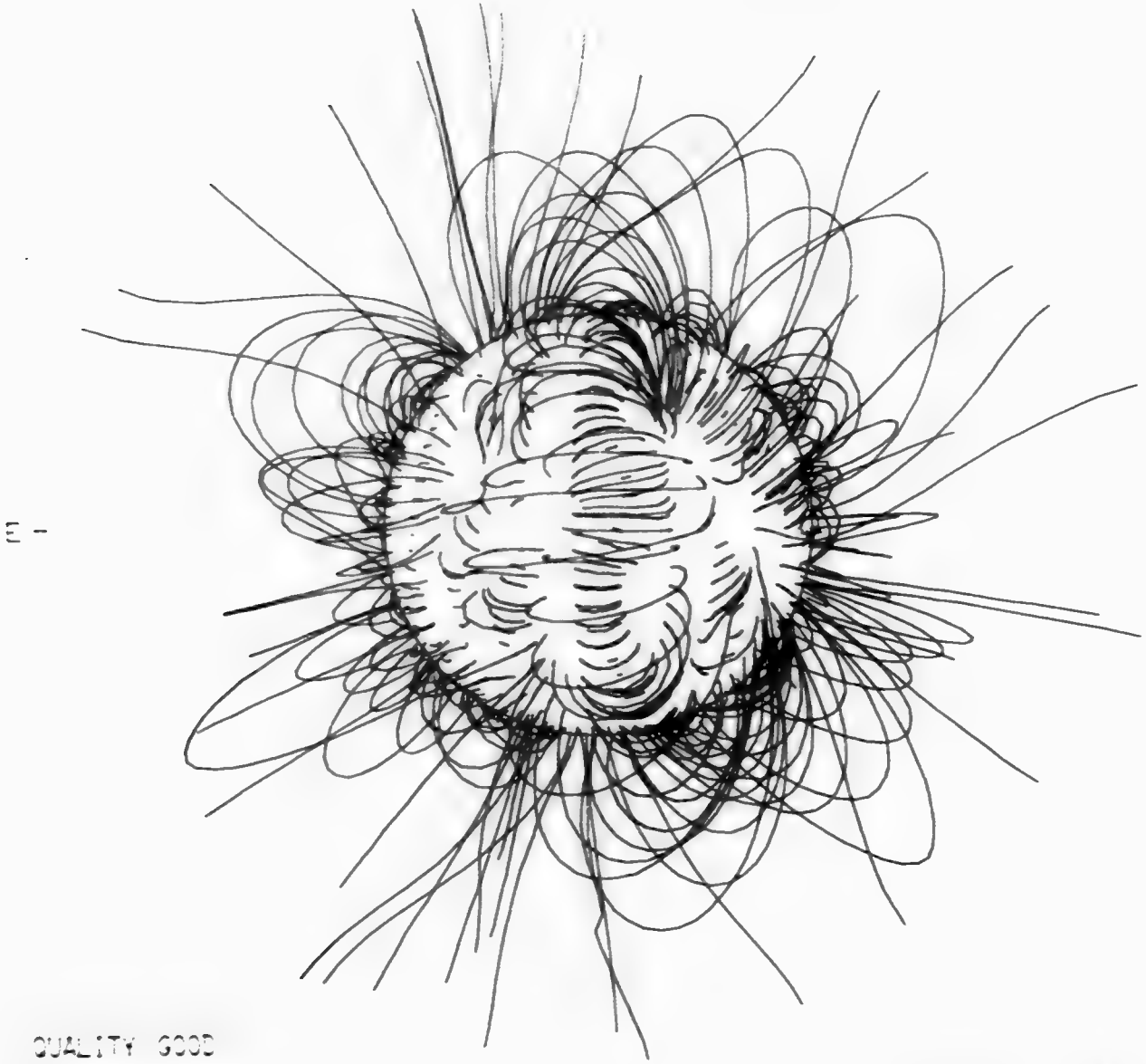
DATA WINDOW 1559.47

S

ROT. 1559 LONG. 5[illegible]°

9.2 APR 197[illegible]

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



QUALITY GOOD

POLES DIRECT

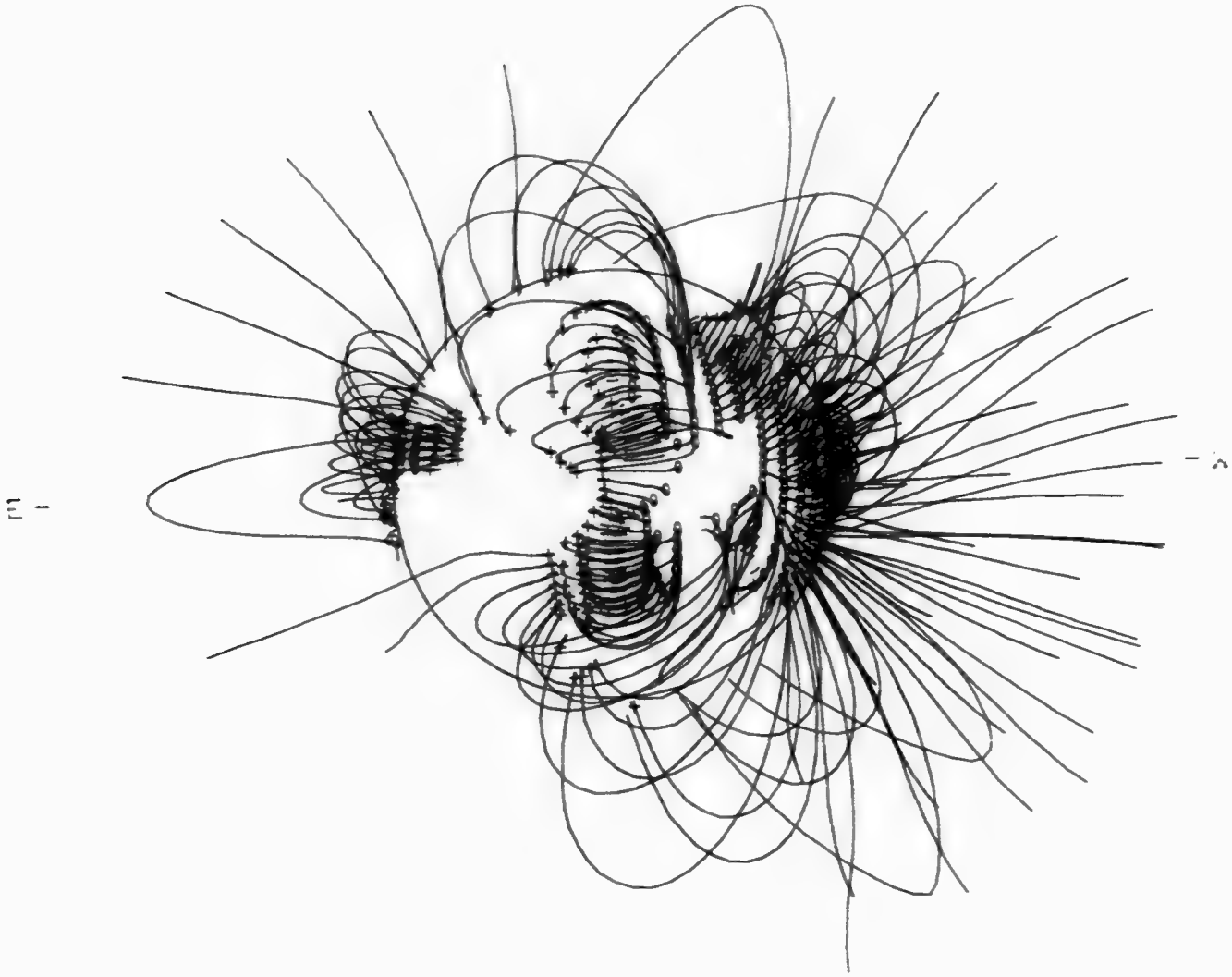
DATA WINDOW 1559.47

ROT. 1559 LONG. 33°

10.2 APR 1970

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N



QUALITY GOOD

POLES DIRECT

DATA WINDOW 1559.47

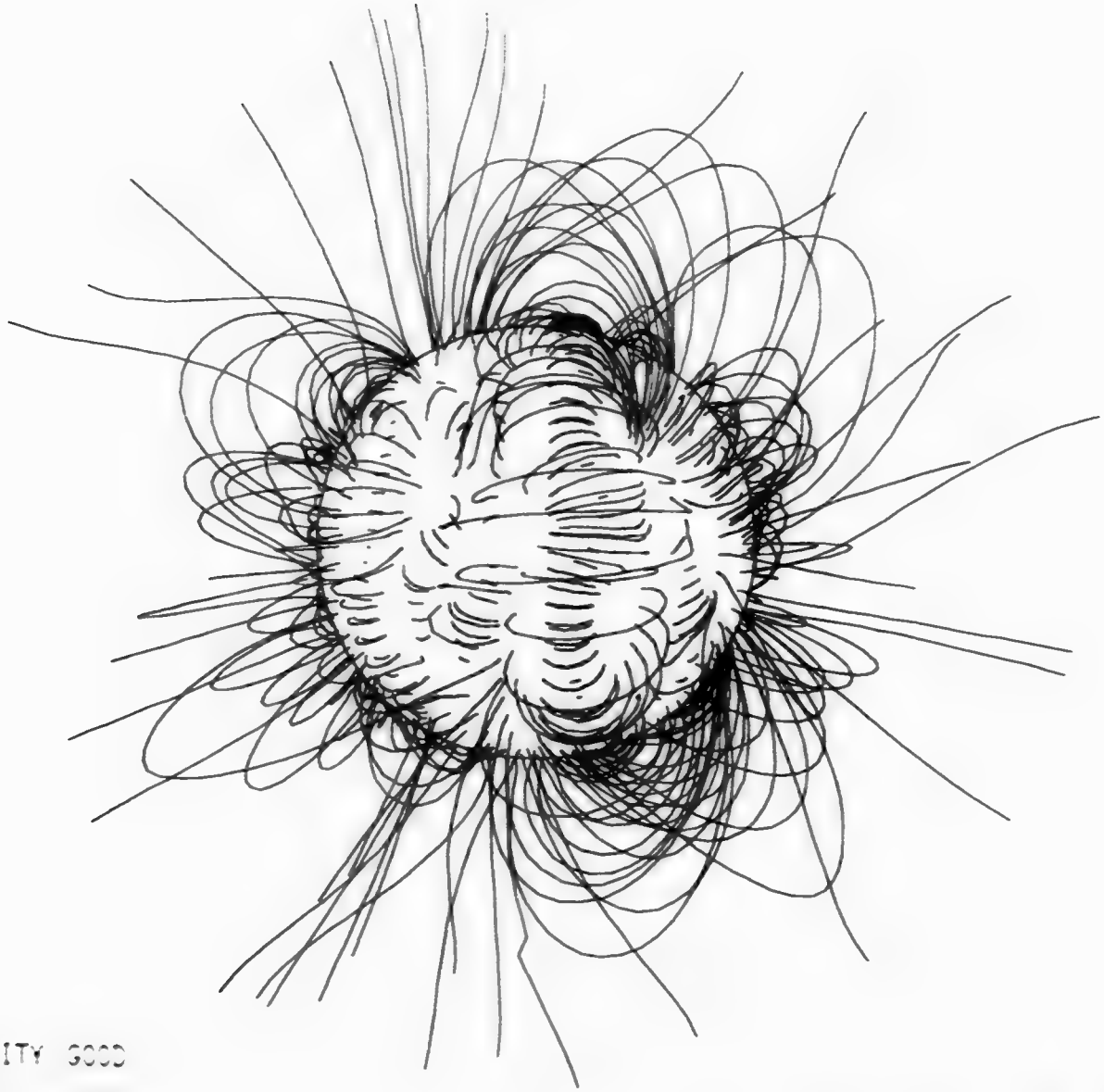
S

ROT. 1559 LONG. 22°

10.2 APR 1973

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N



E

A

S

QUALITY GOOD

POLES DIRECT

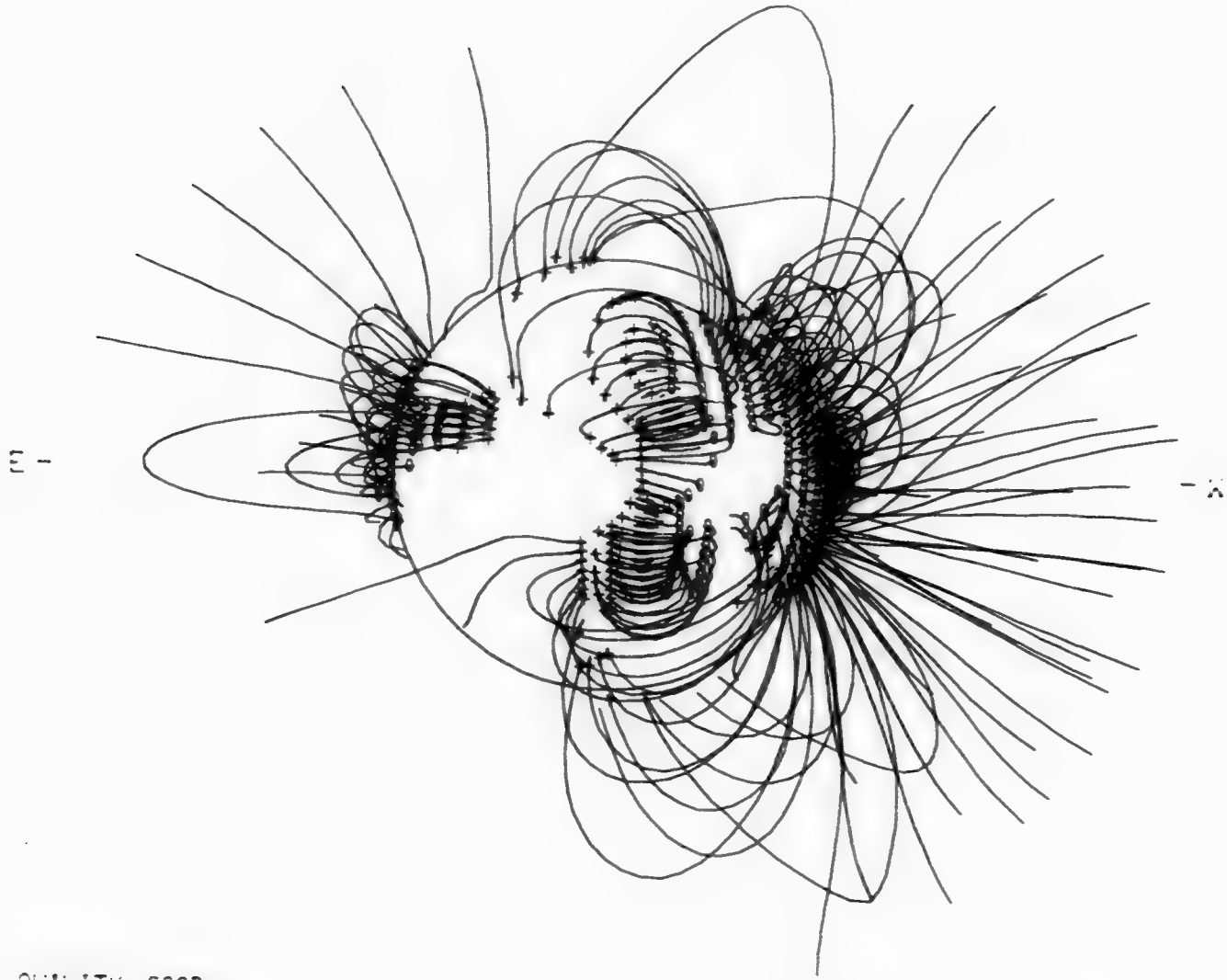
DATA WINDOW 1559.47

ROT. 1559 LONG. 5[illegible]°

10.9 APR 197[illegible]

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N



E

W

S

QUALITY GOOD

POLES DIRECT

DATA WINDOW 1559.47

ROT. 1559 LONG. 5[illegible]°

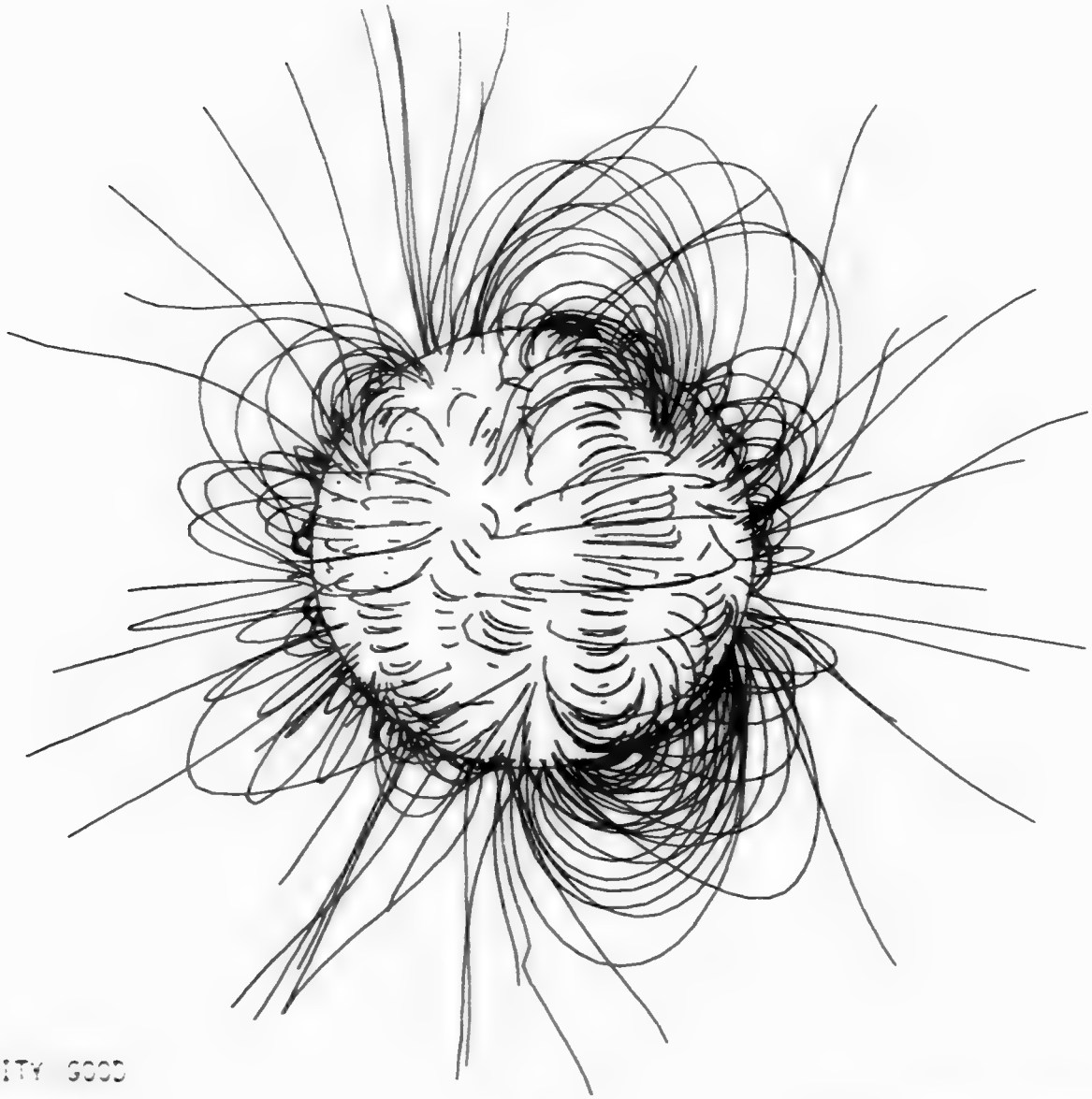
10.9 APR 197[illegible]

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N

E –

– W



S

QUALITY GOOD

POLES DIRECT

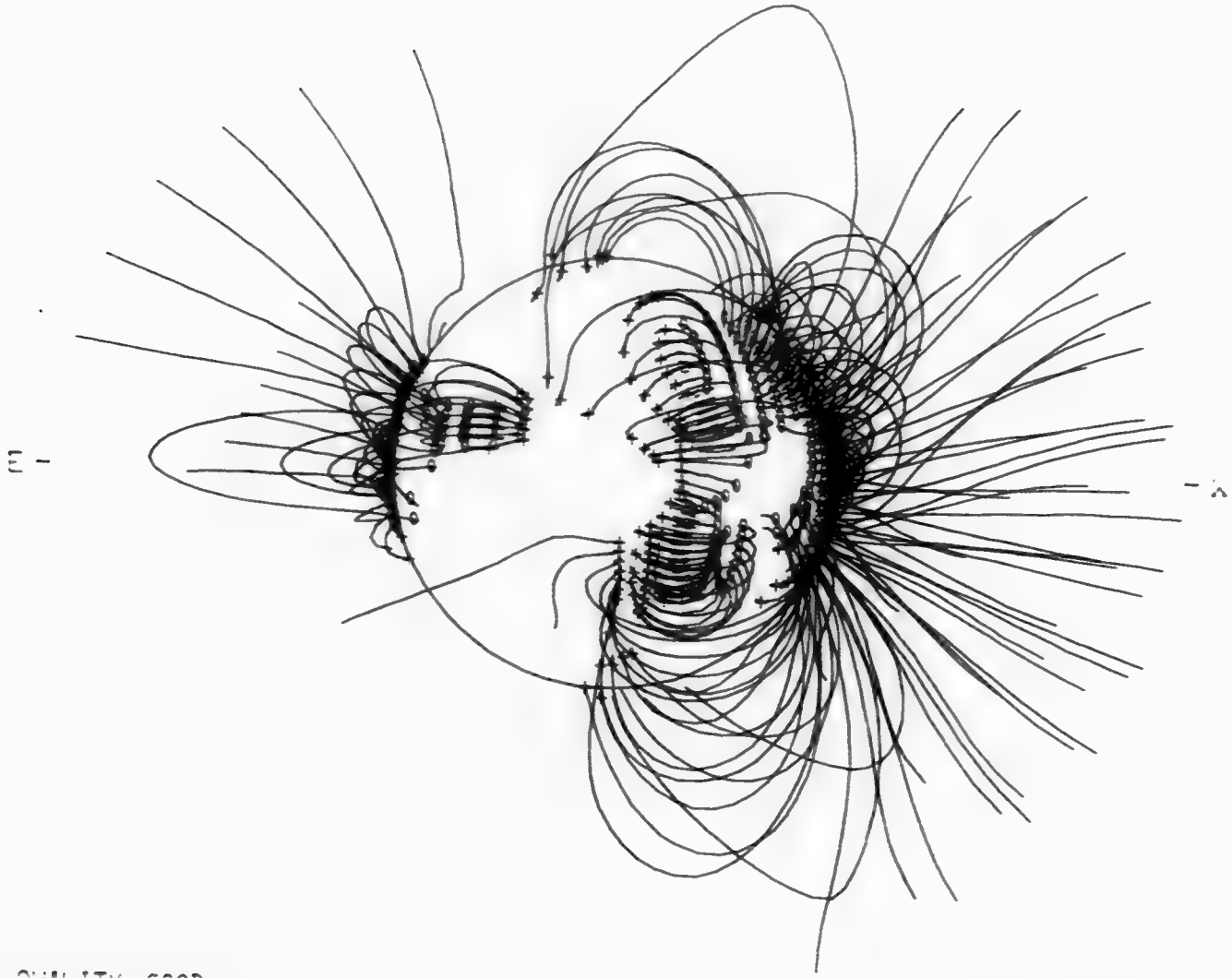
DATA WINDOW 1559.47

ROT. 1559 LONG. 23°

11.7 APR 1970

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N



E

QUALITY GOOD

POLES DIRECT

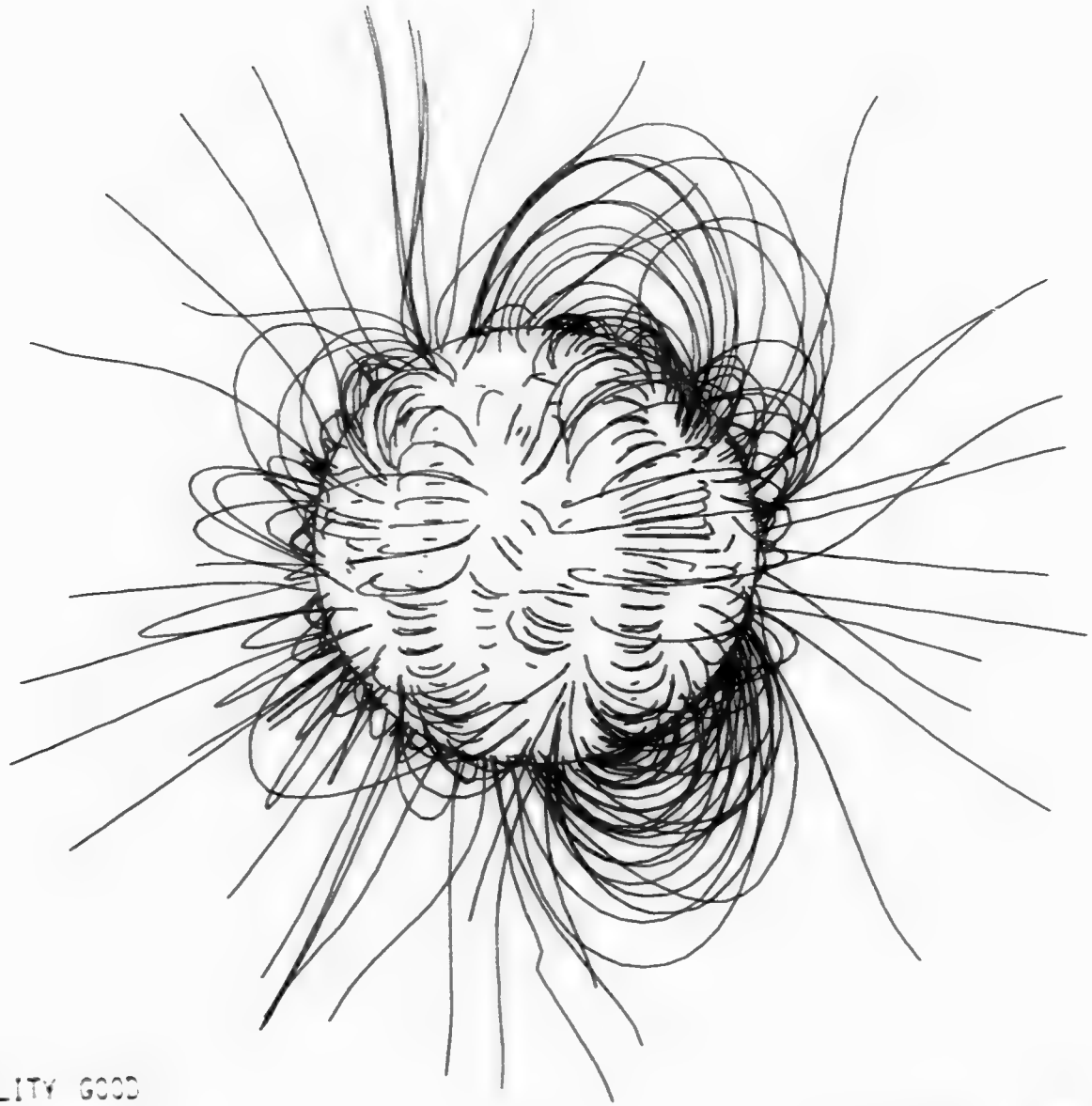
DATA WINDOW 1559.47

S

ROT. 1559 LONG. 33°

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N



E

S

QUALITY GOOD

POLES DIRECT

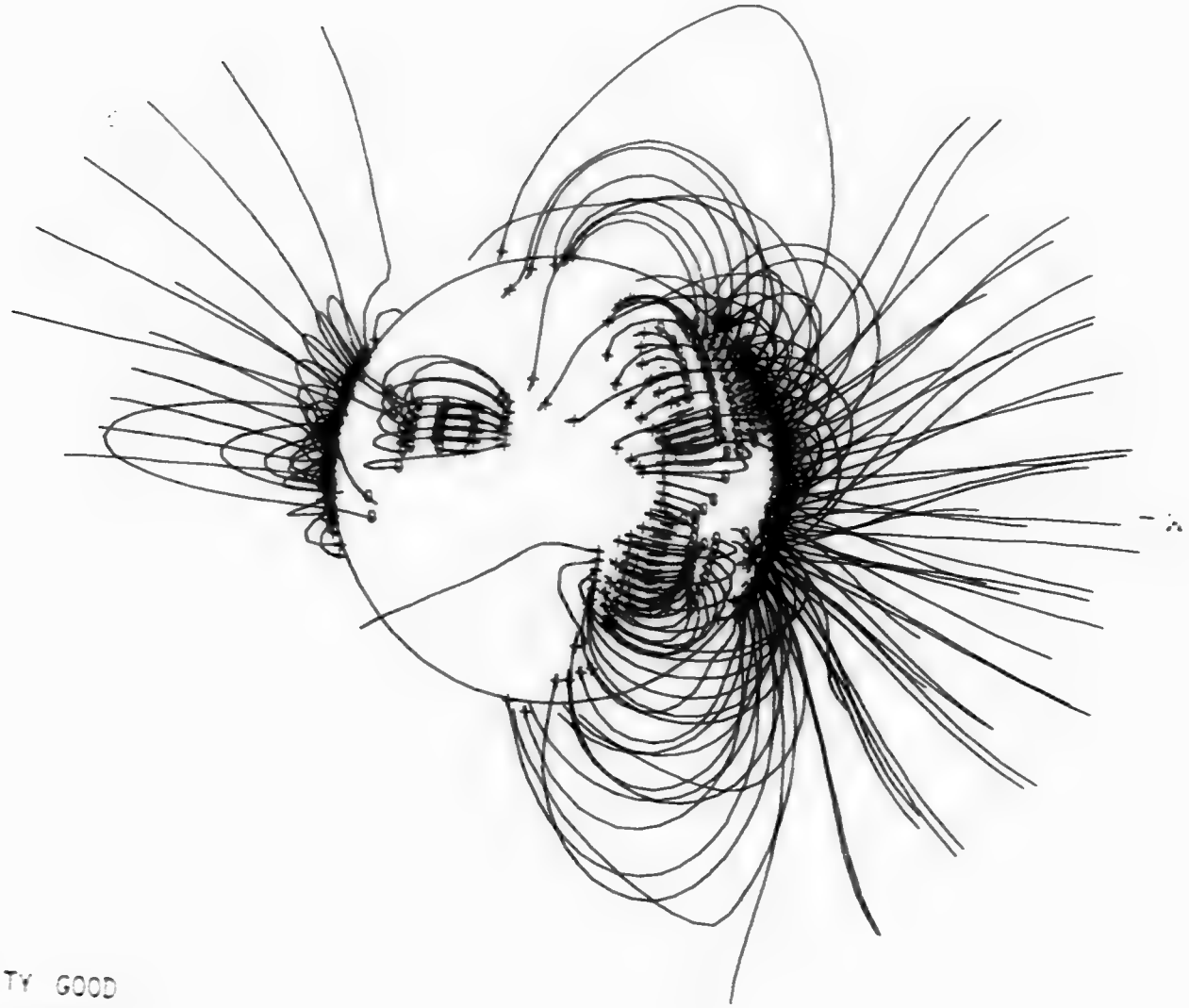
DATA WINDOW 1559.47

ROT. 1559 LONG. 1

12.4 APR 197

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N



E

A

QUALITY GOOD

POLES DIRECT

DATA WINDOW 1559.47

S

ROT. 1559 LONG. 1[illegible]°

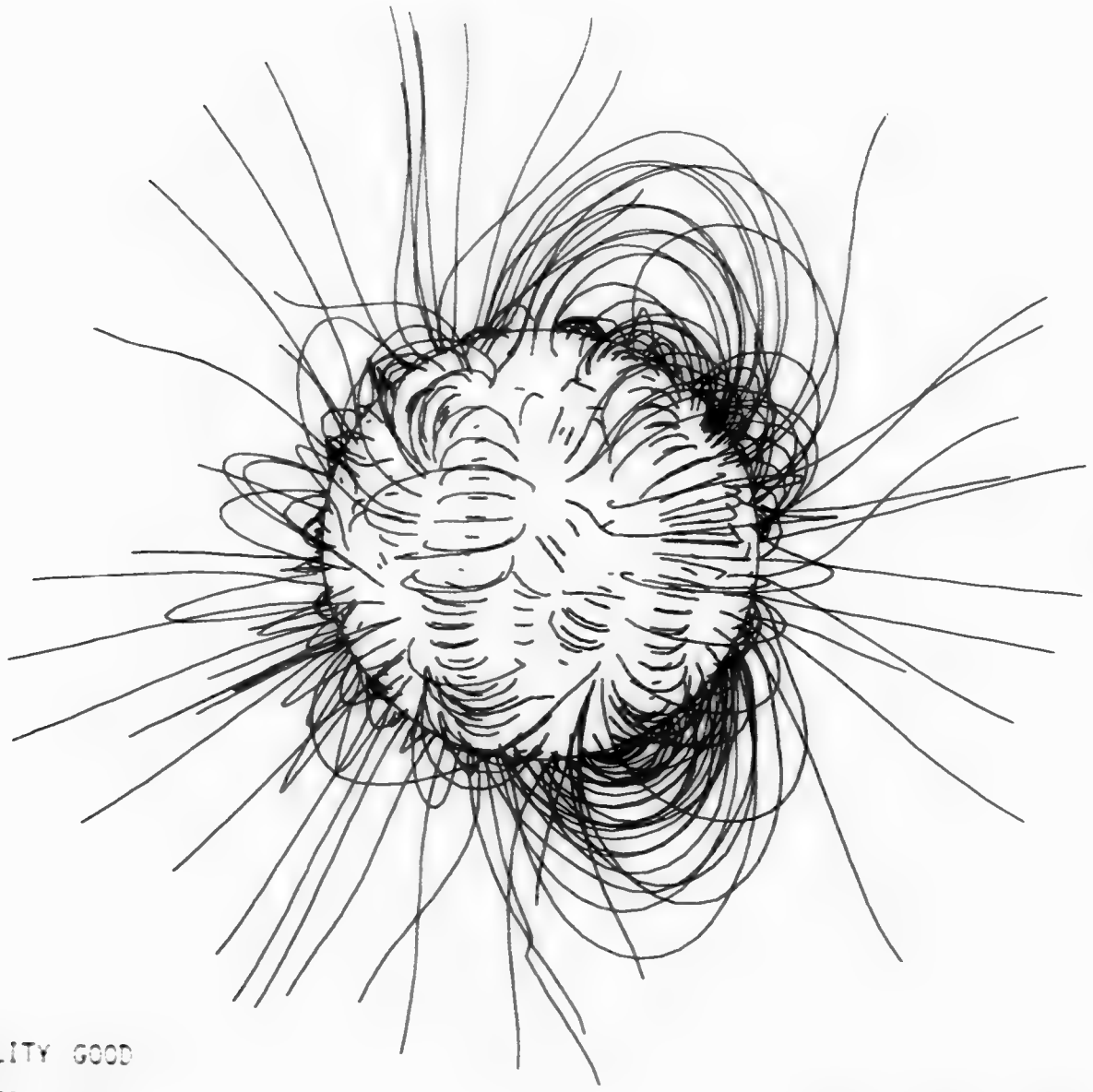
12.4 APR 197[illegible]

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N

E

S



QUALITY GOOD

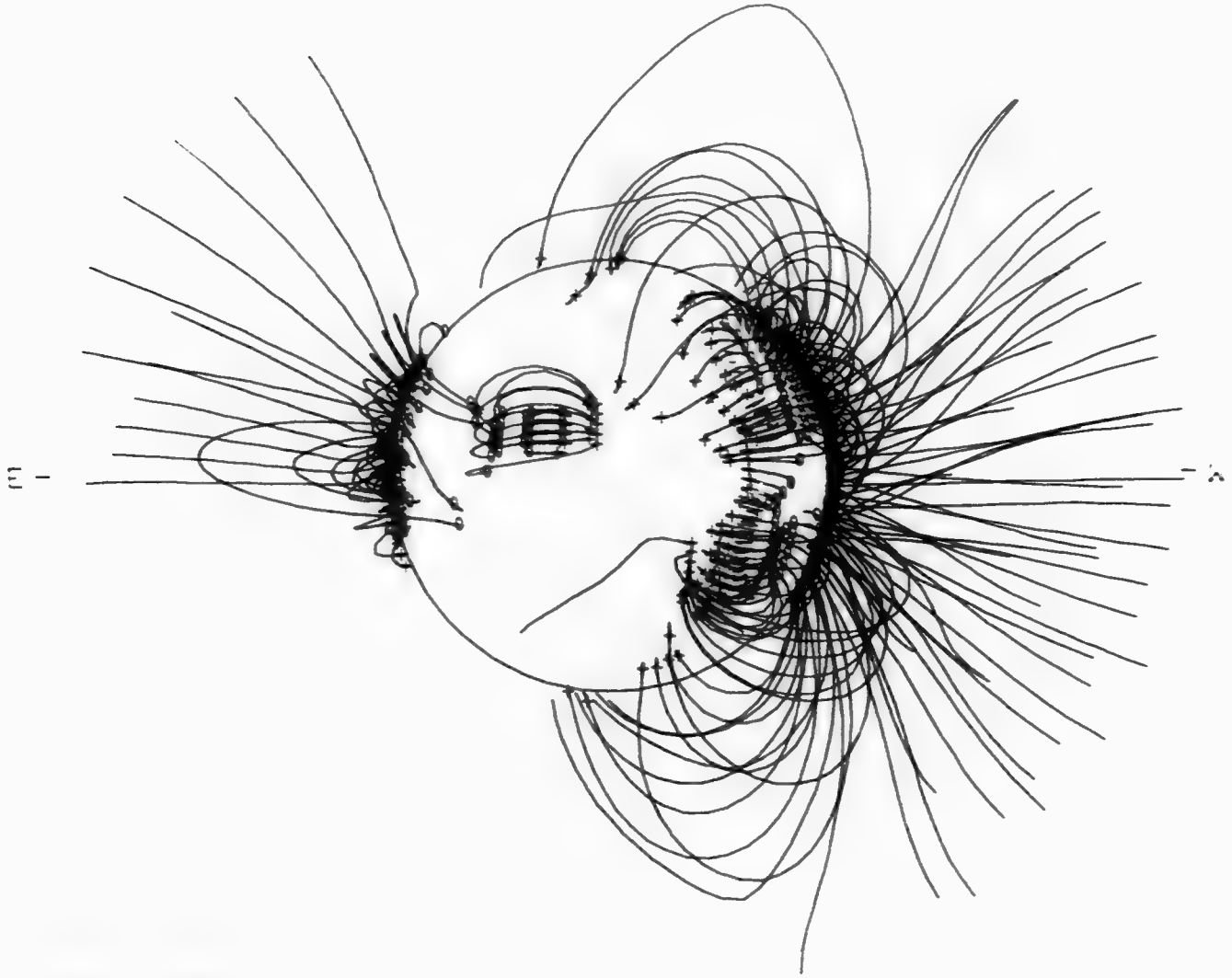
POLES DIRECT

DATA WINDOW 1559.47

ROT. 1559 LONG. 3°

15.2 APR 1971

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



QUALITY GOOD

POLES DIRECT

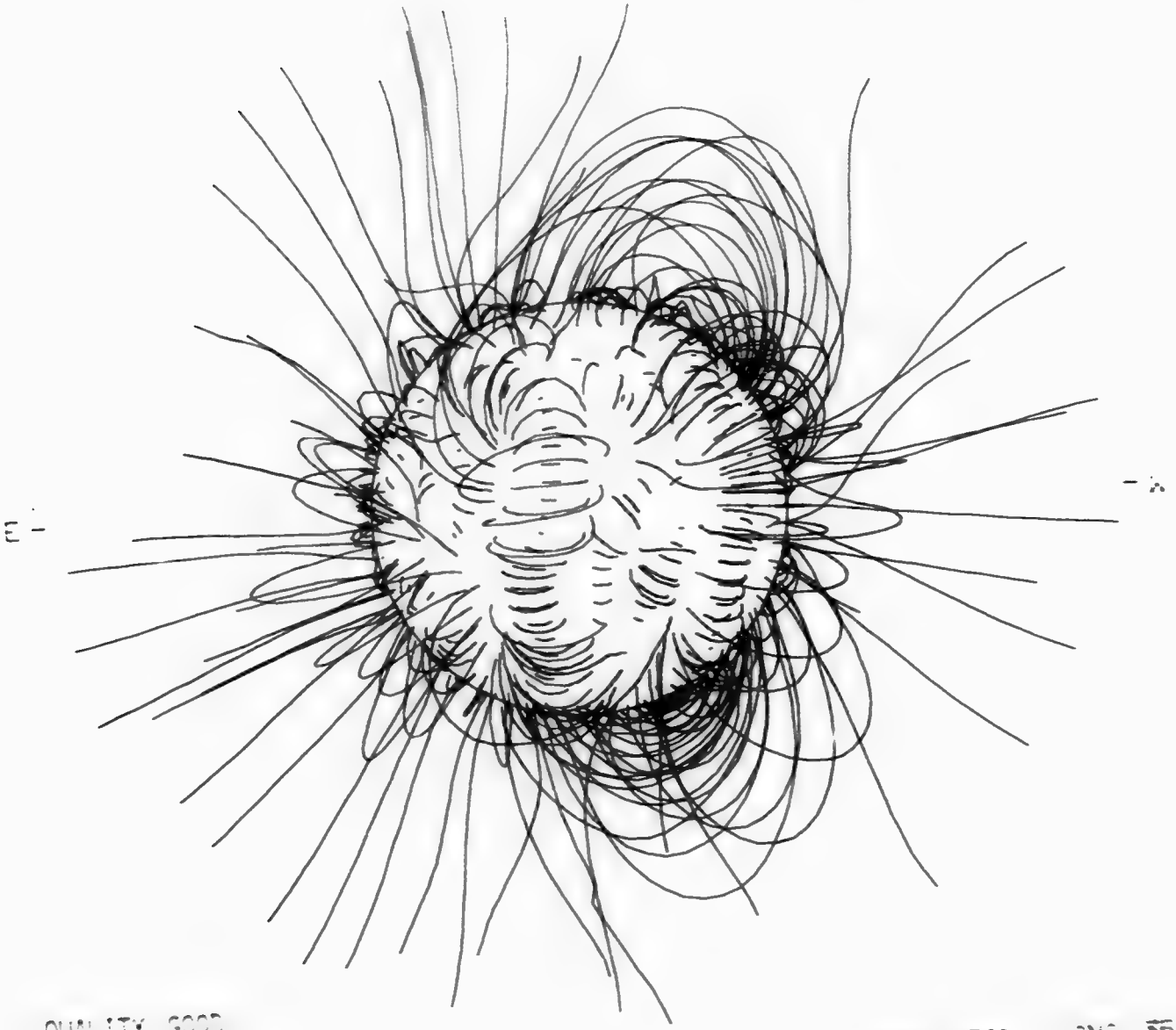
DATA WINDOW 1559.47

ROT. 1559 LONG. 3°

13.2 APR 1972

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N



E

A

S

QUALITY GOOD

POLES DIRECT

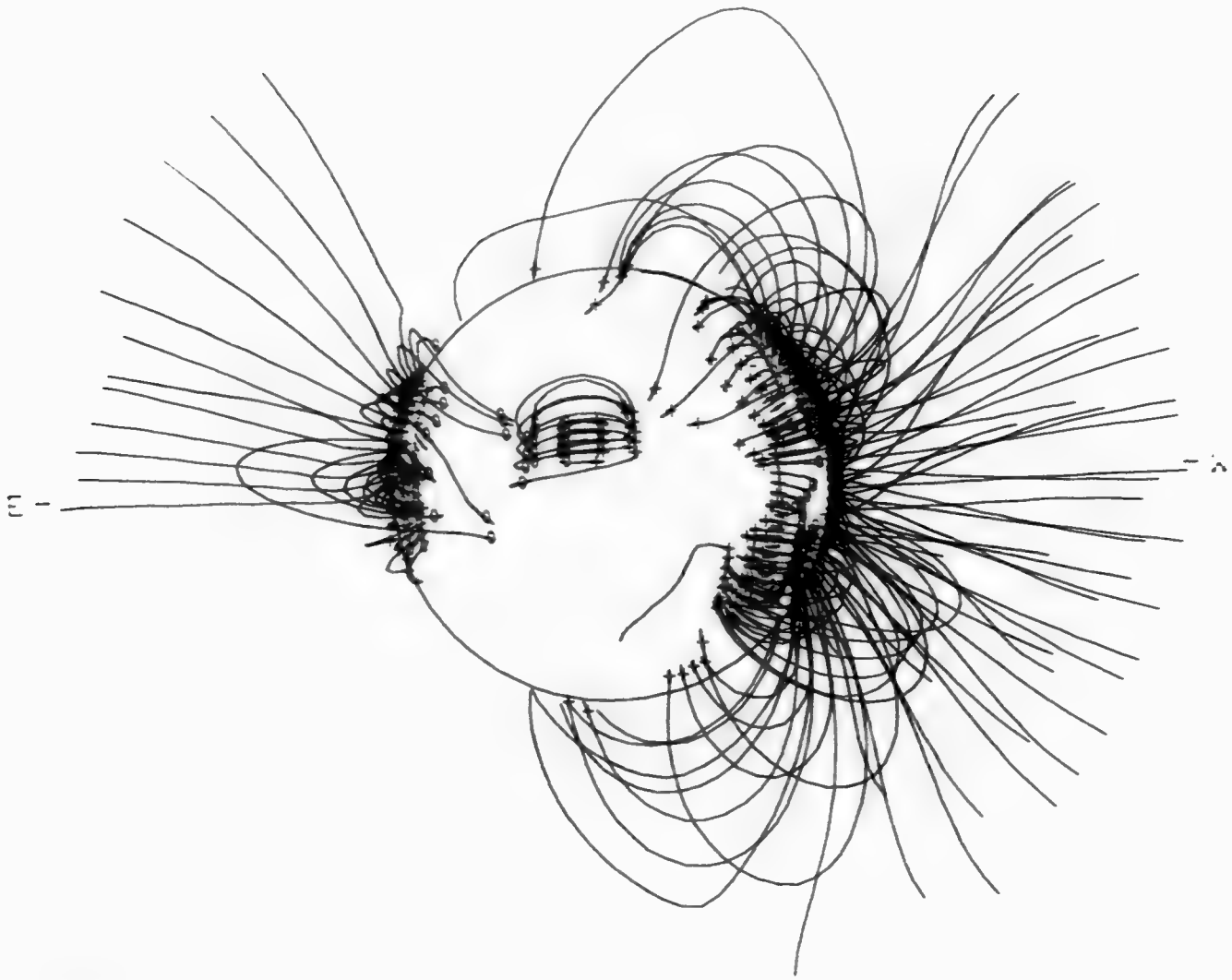
DATA WINDOW 1559.47

ROT. 1560 LONG. 55°

14.1 APR 1971

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N



S

QUALITY GOOD

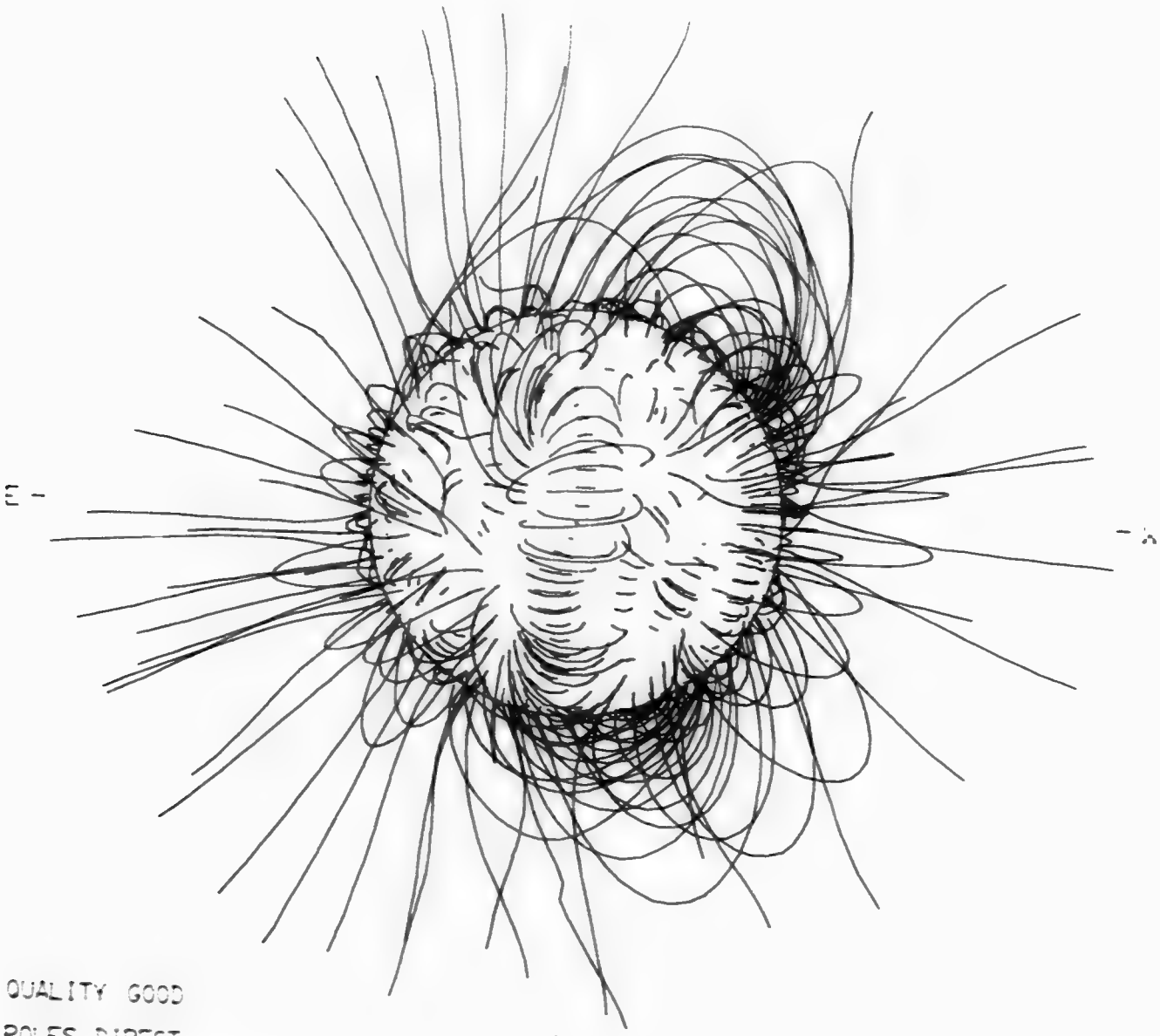
POLES DIRECT

DATA WINDOW 1559.47

ROT. 1560 LONG. 55°

14.0 APR 1971

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



QUALITY GOOD

POLES DIRECT

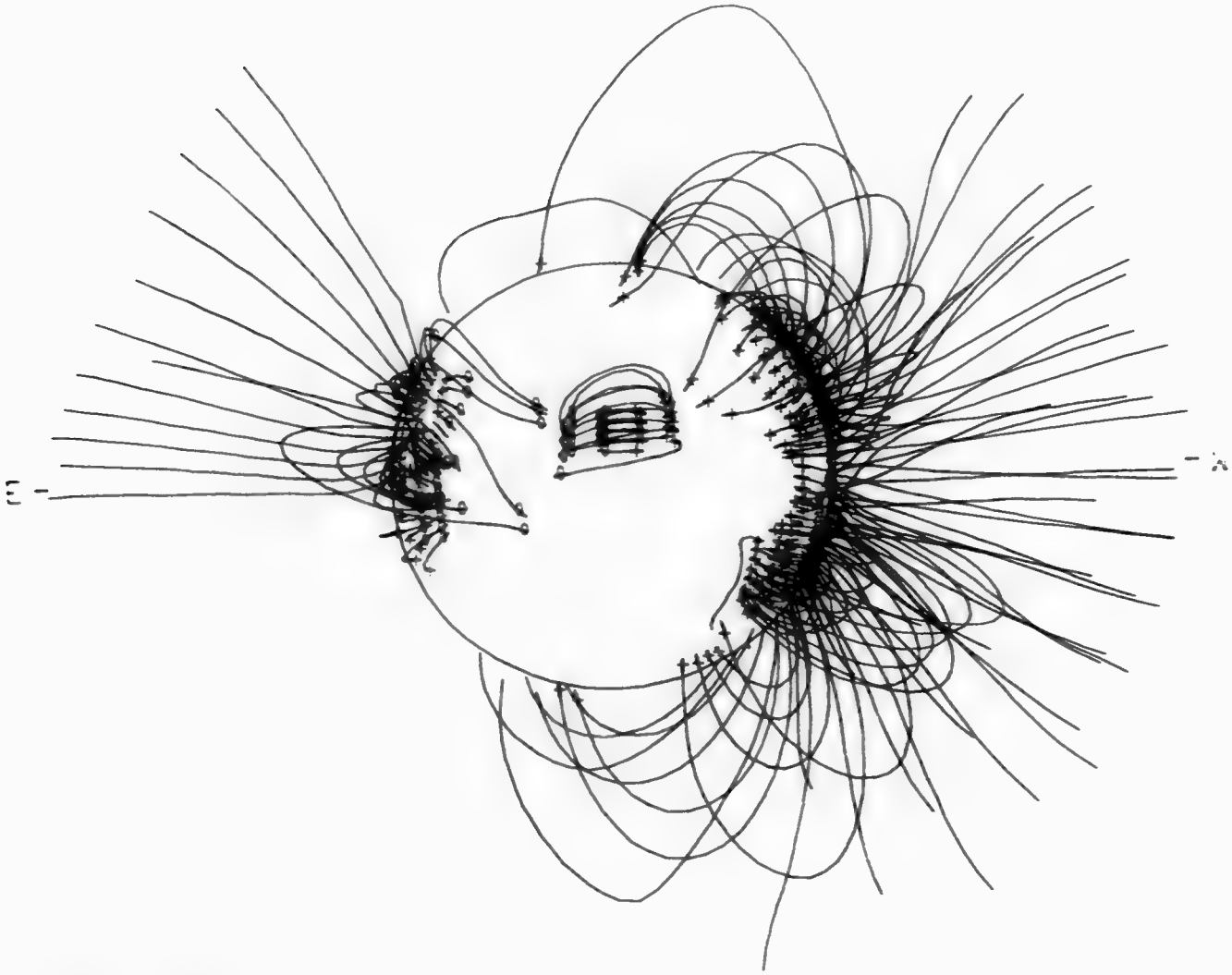
DATA WINDOW 1559.47

ROT. 1560 LONG. 300°

14.7 APR 1970

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N



QUALITY GOOD

POLES DIRECT

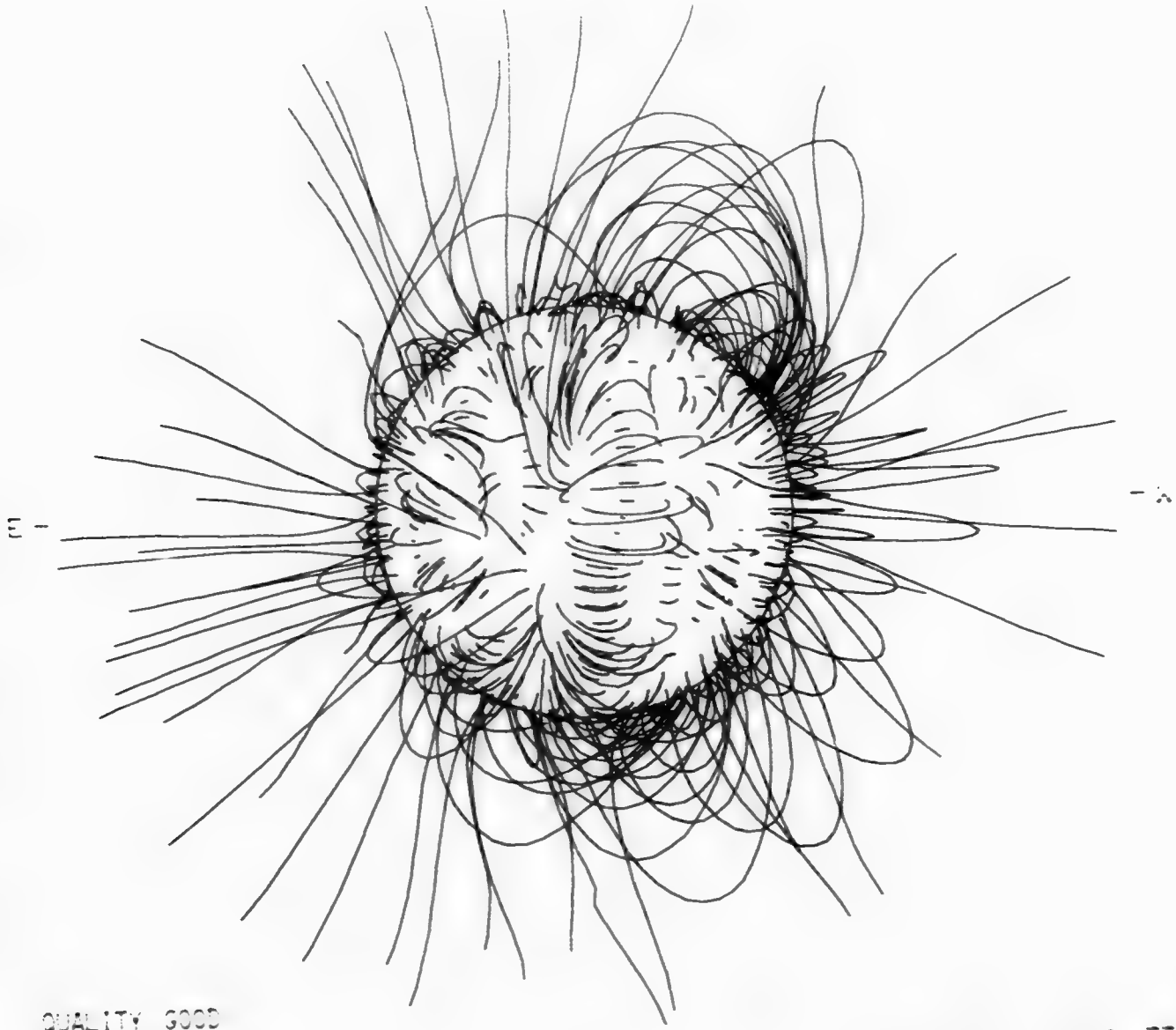
DATA WINDOW 1559.47

S

ROT. 1560 LONG. 5[illegible]°

12.7 APR 197[illegible]

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



QUALITY GOOD

POLES DIRECT

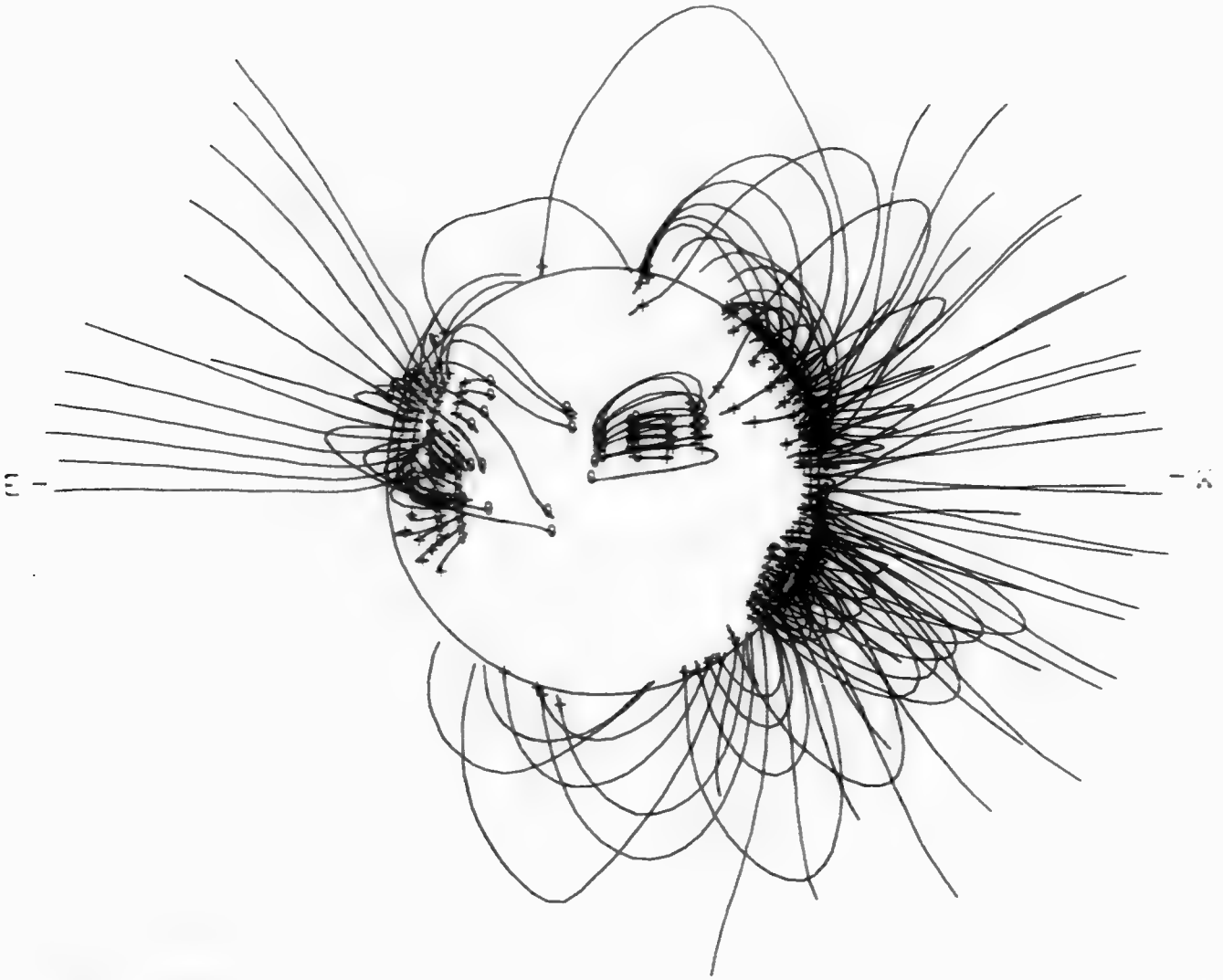
DATA WINDOW 1559.47

ROT. 1560 LONG. 55°

15.5 APR 197

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N



S

QUALITY GOOD

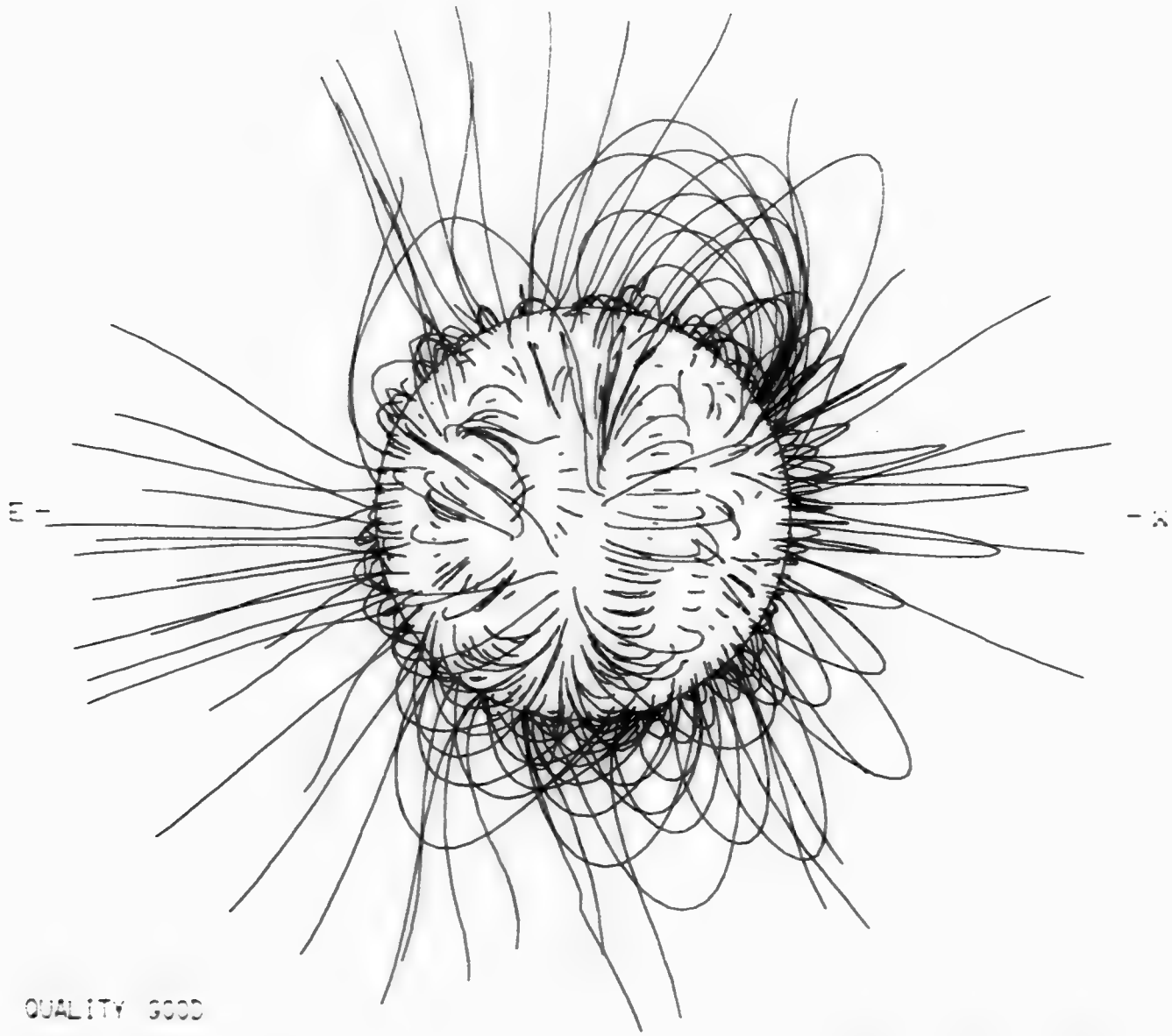
POLES DIRECT

DATA WINDOW 1559.47

ROT. 1560 LONG. 55°

15.5 APR 1970

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



QUALITY GOOD

POLES DIRECT

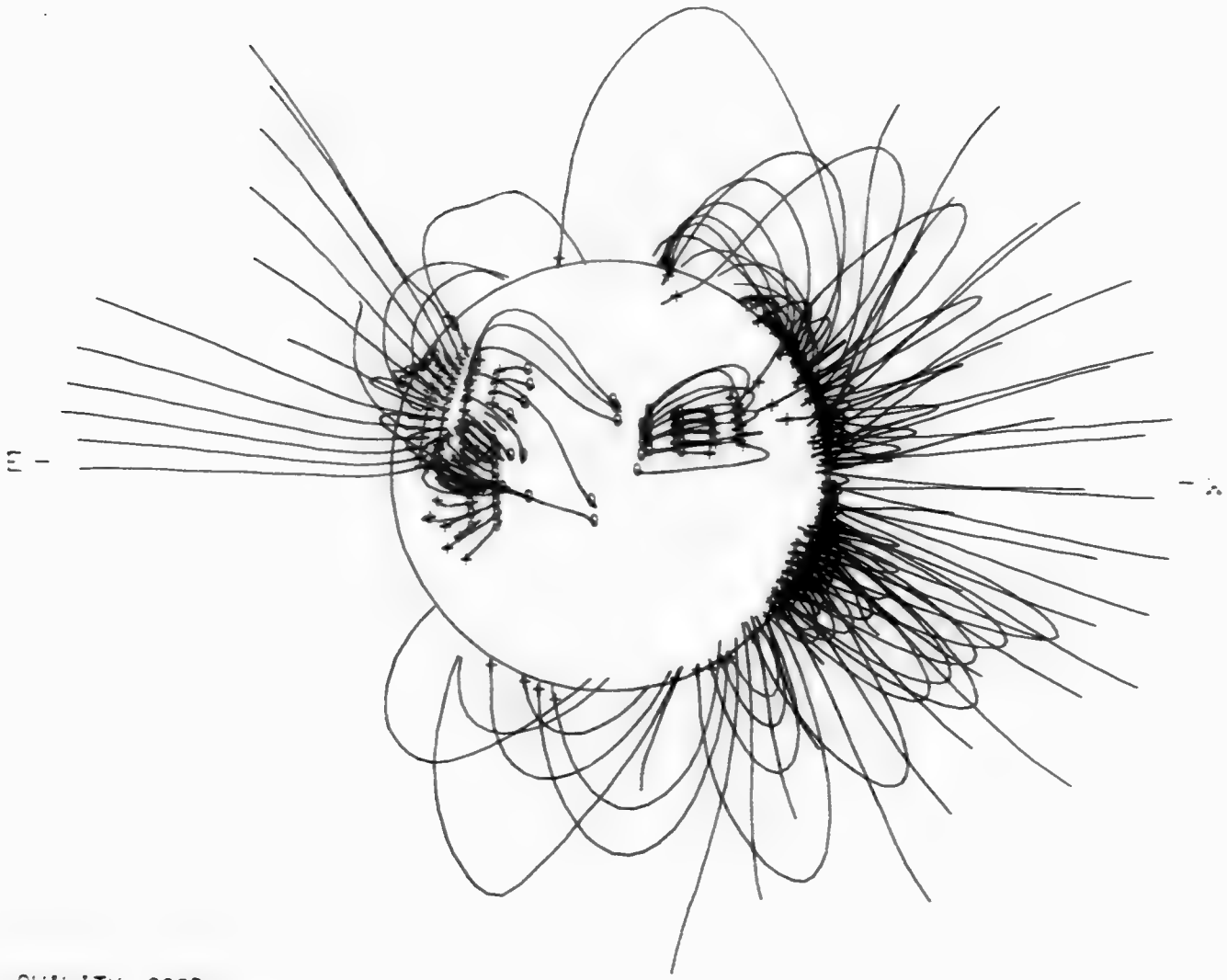
DATA WINDOW 1559.47

ROT. 1560 LONG. 301°

16.2 APR 1970

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N



QUALITY GOOD

POLES DIRECT

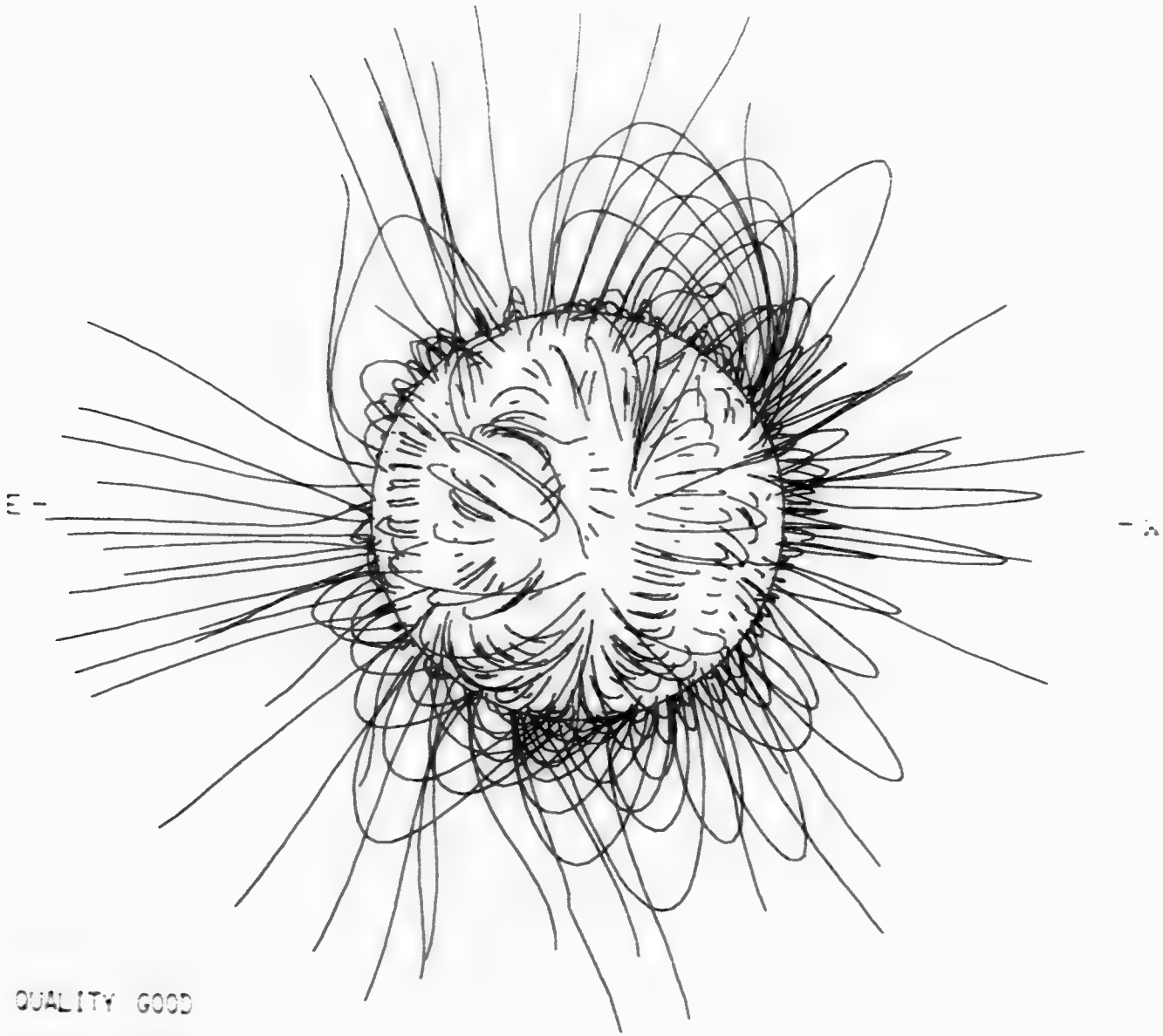
DATA WINDOW 1559.4T

S

ROT. 1561 LONG. 321°

16.2 APR 1971

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



QUALITY GOOD

POLES DIRECT

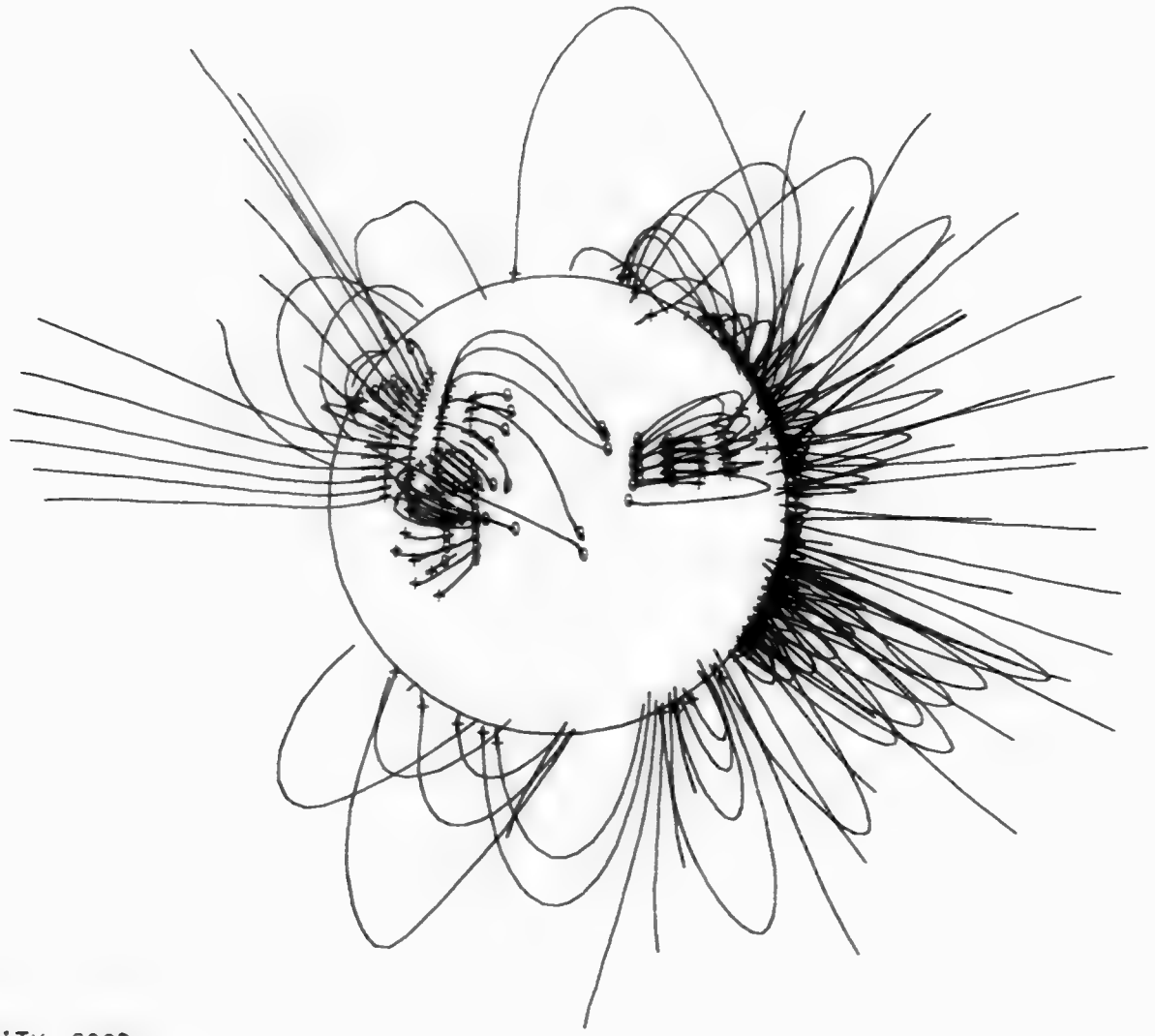
DATA WINDOW 1559.47

ROT. 1560 LONG. 31[illegible]°

17.0 APR 197[illegible]

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N



E

W

S

QUALITY GOOD

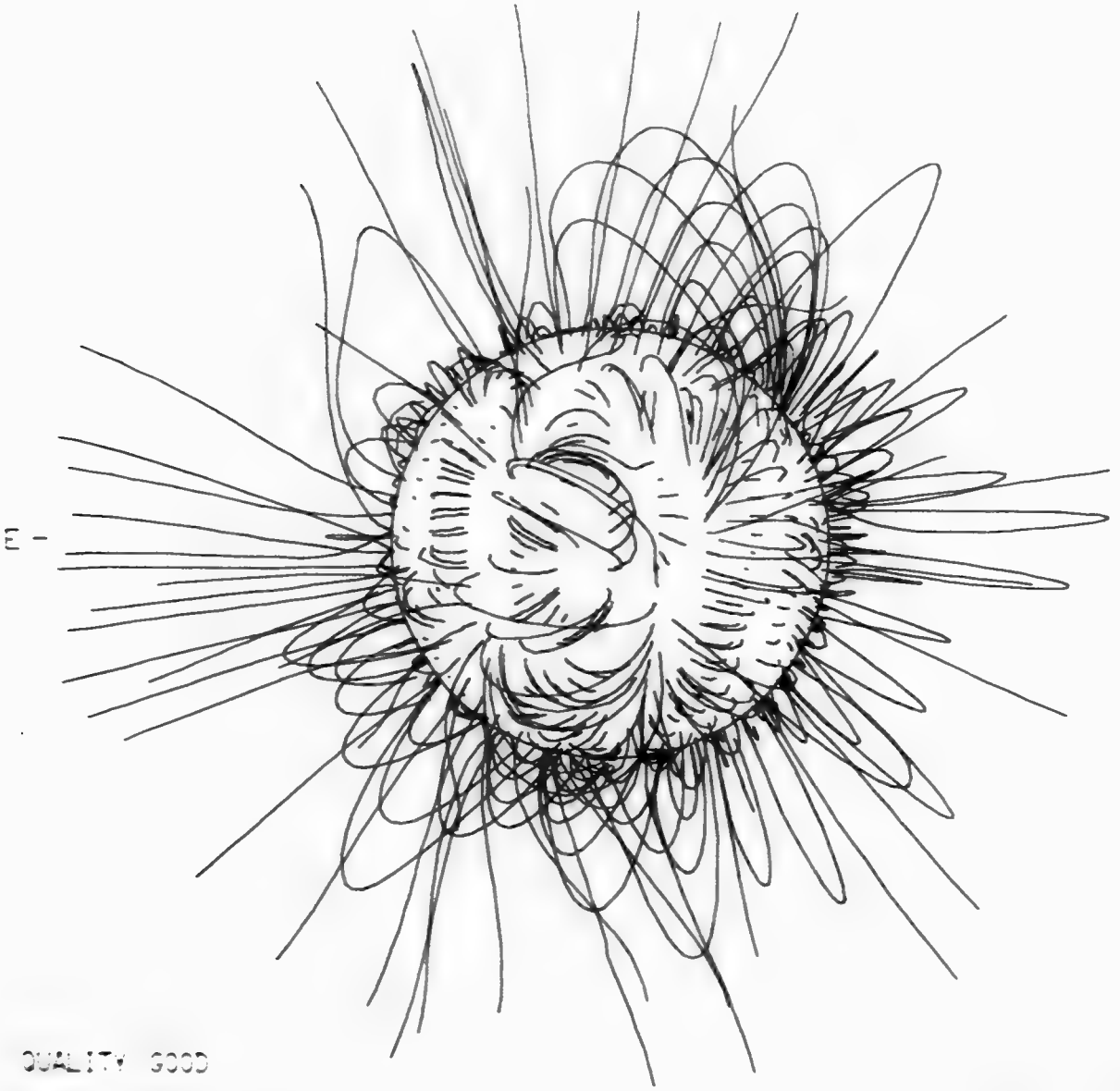
POLES DIRECT

DATA WINDOW 1559.47

ROT. 1560 LONG. 31°

17.0 APR 1970

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



QUALITY GOOD

POLES DIRECT

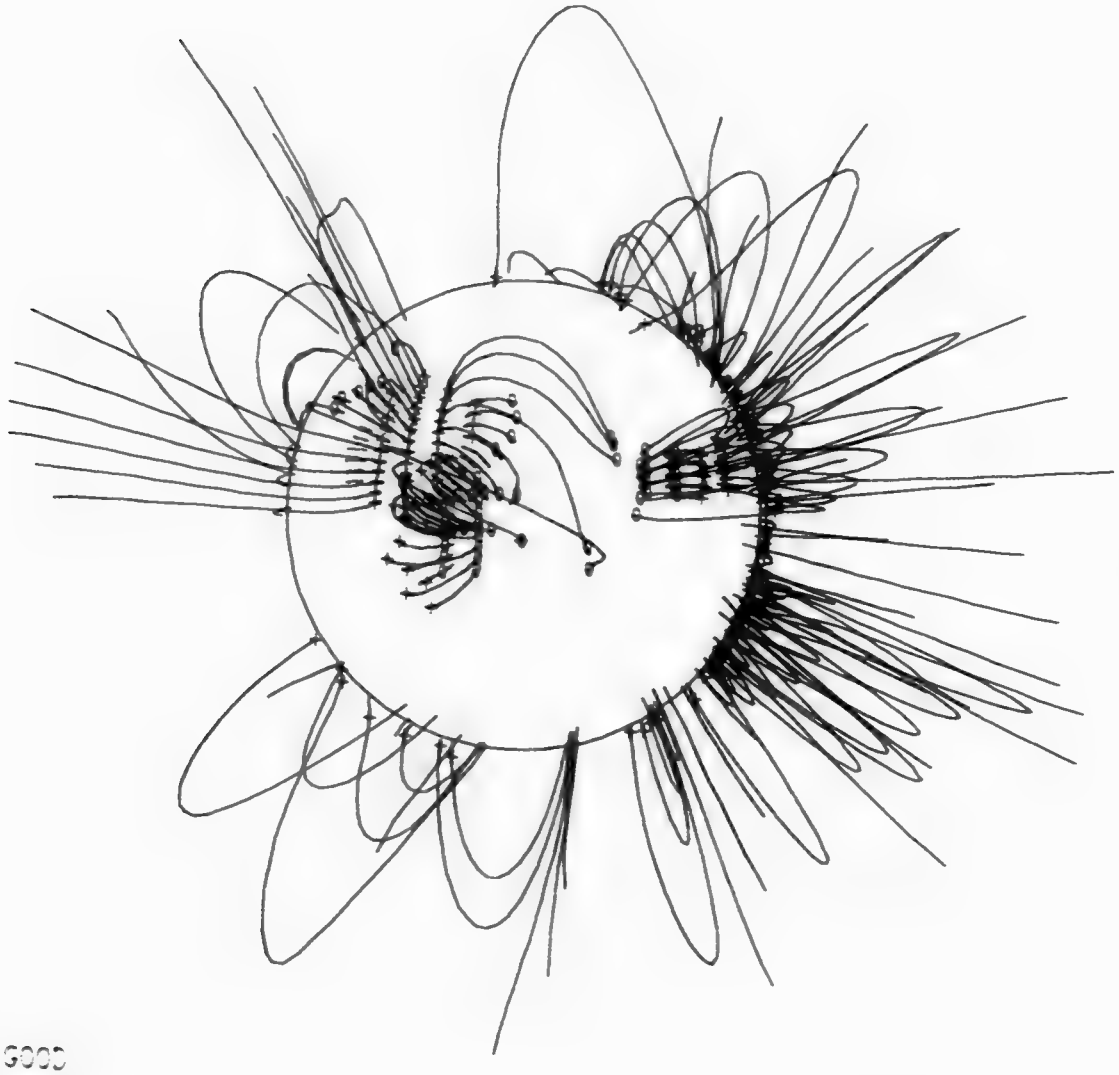
DATA WINDOW 1559.4T

ROT. 1560 LONG. 300°

17.7 APR 1970

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N



E

A

QUALITY GOOD

POLES DIRECT

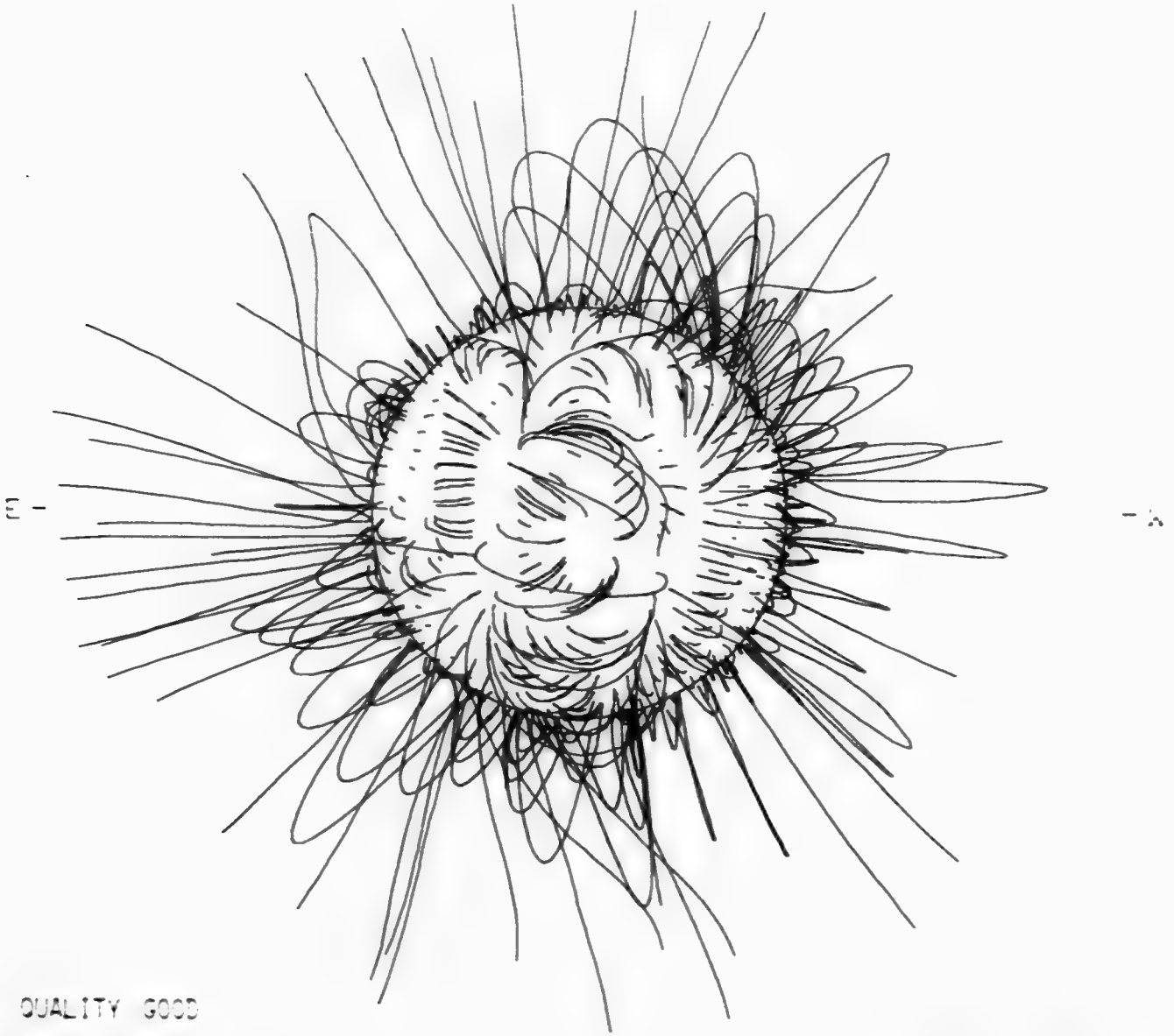
DATA WINDOW 1559.47

S

ROT. 1560 LONG. 3[illegible]°

17.[illegible] APR 197[illegible]

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



QUALITY GOOD

POLES DIRECT

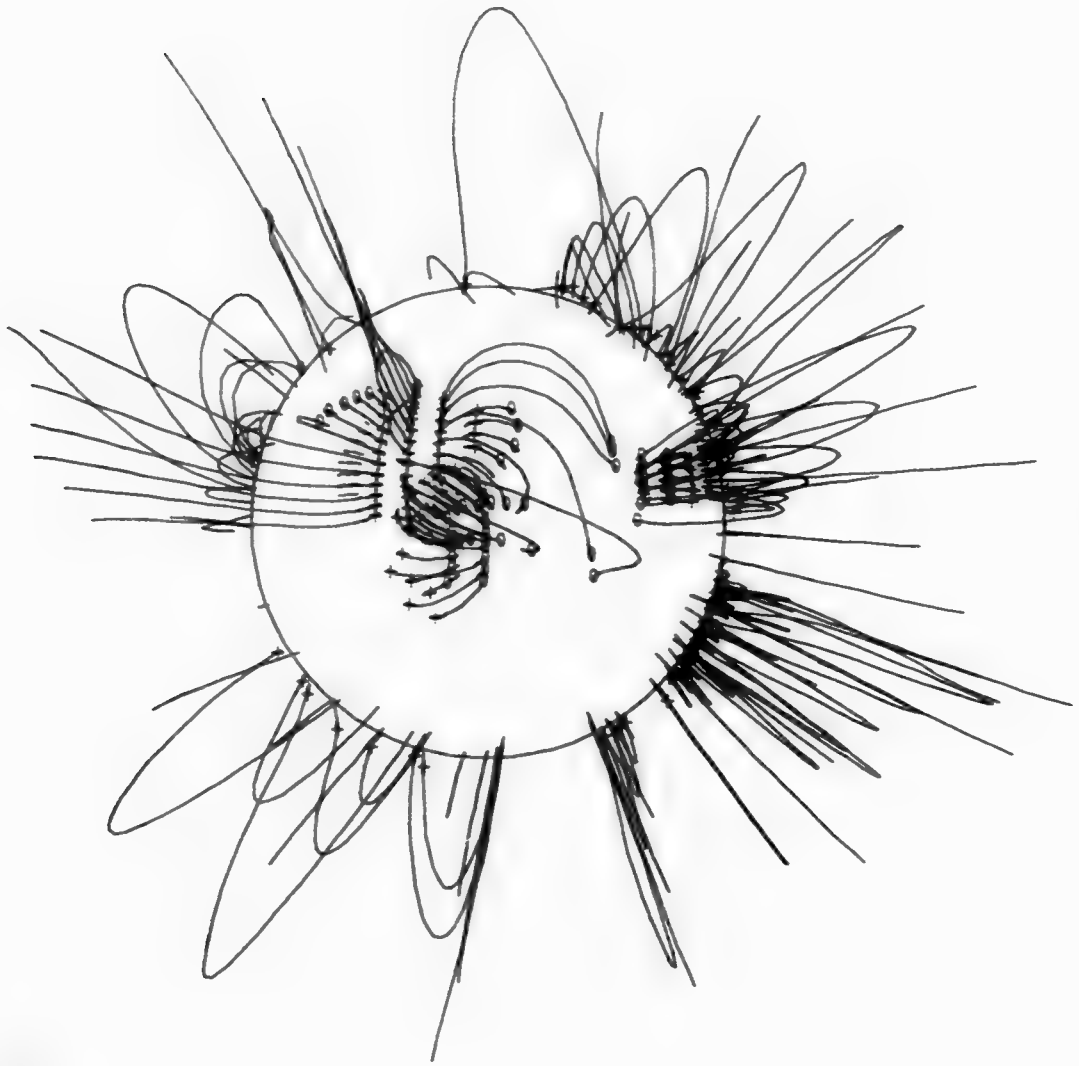
DATA WINDOW 1559.47

ROT. 1561 LONG. 290°

18.5 APR 1972

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N



E

A

QUALITY GOOD

POLES DIRECT

DATA WINDOW 1559.47

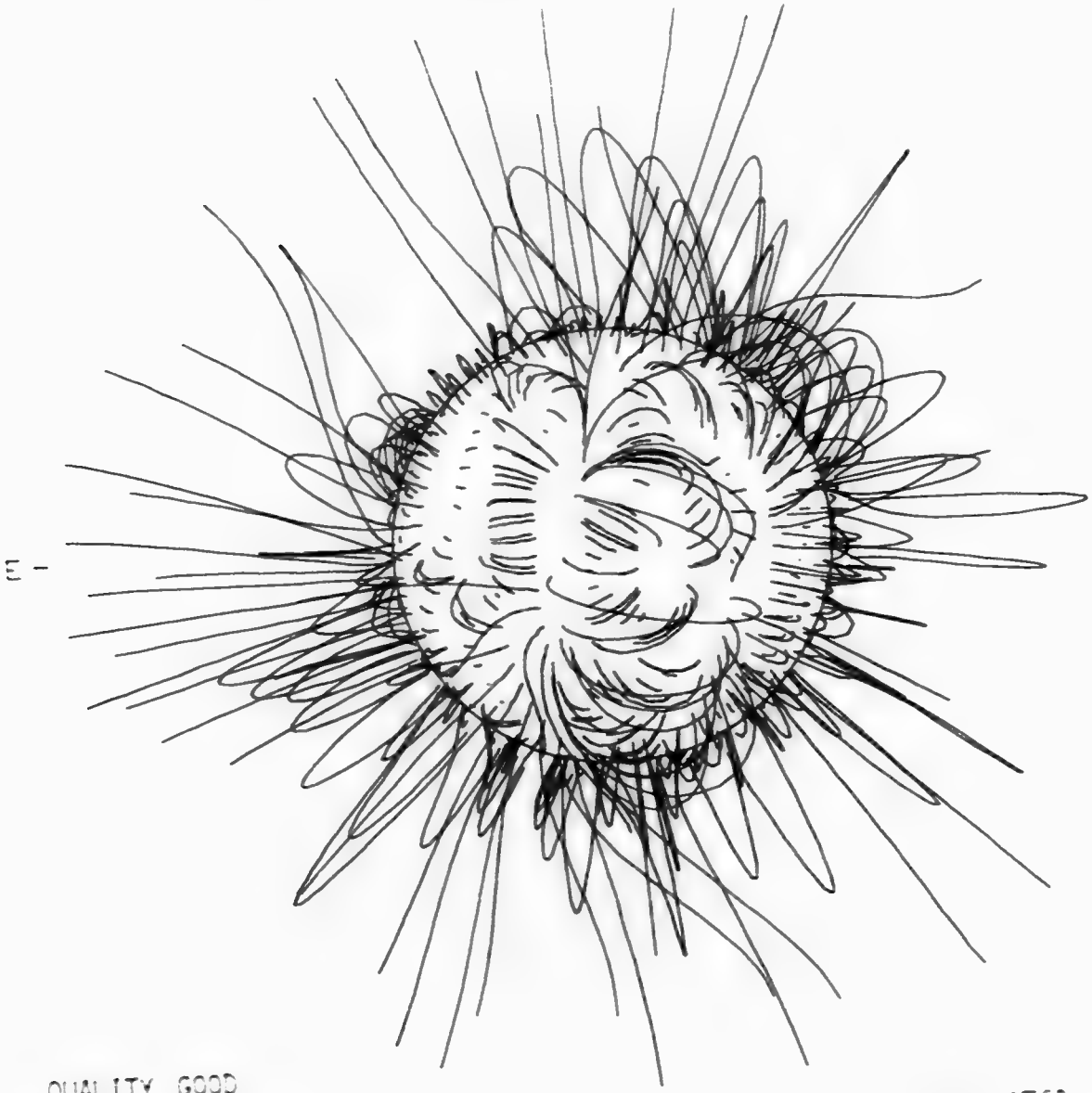
S

ROT. 1561 LONG. 291°

18.5 APR 1971

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N



E

A

S

QUALITY GOOD

POLES DIRECT

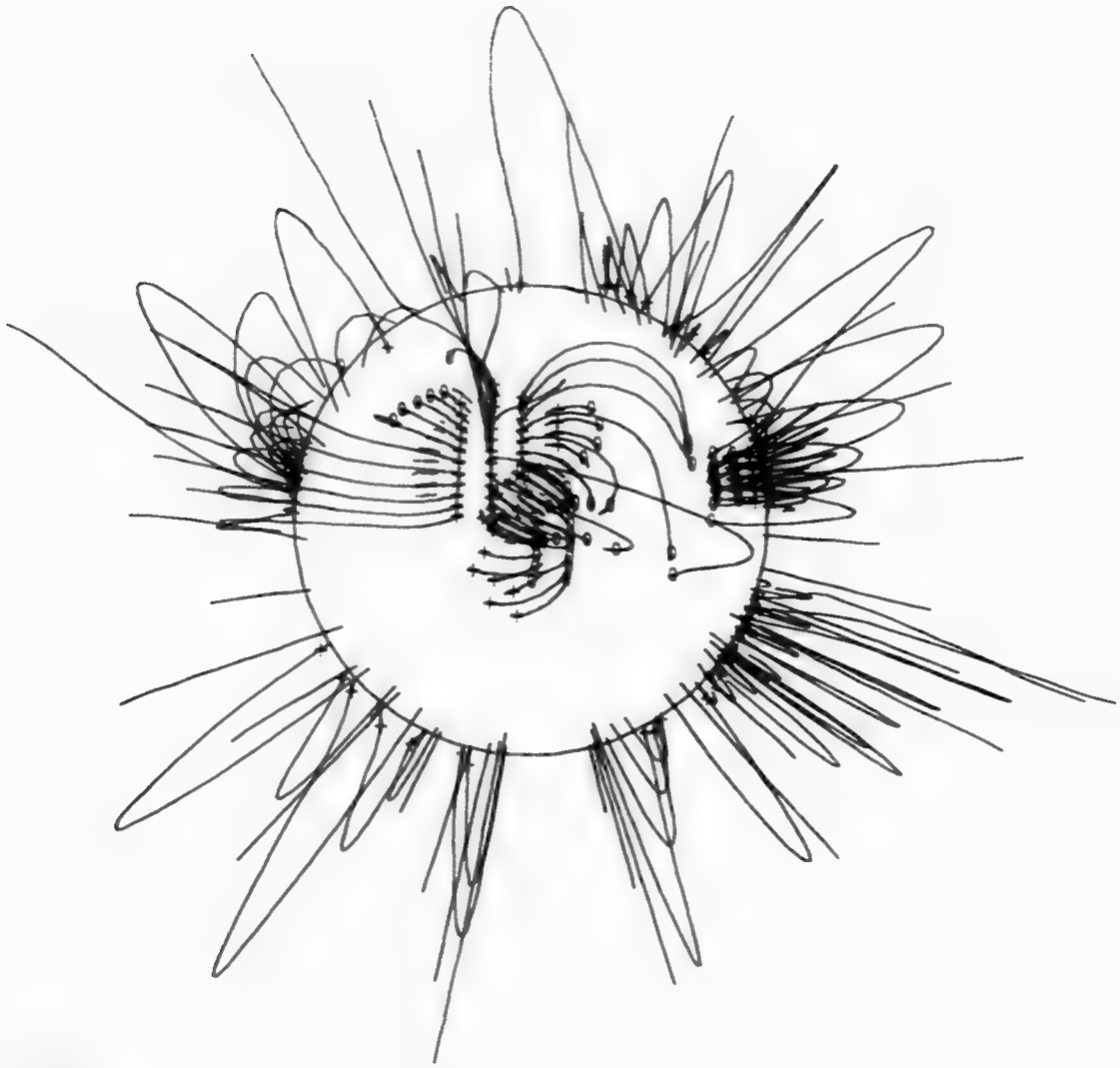
DATA WINDOW 1559.47

ROT. 1560 LONG. 28°

19.3 APR 197

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N



E

QUALITY GOOD

POLES DIRECT

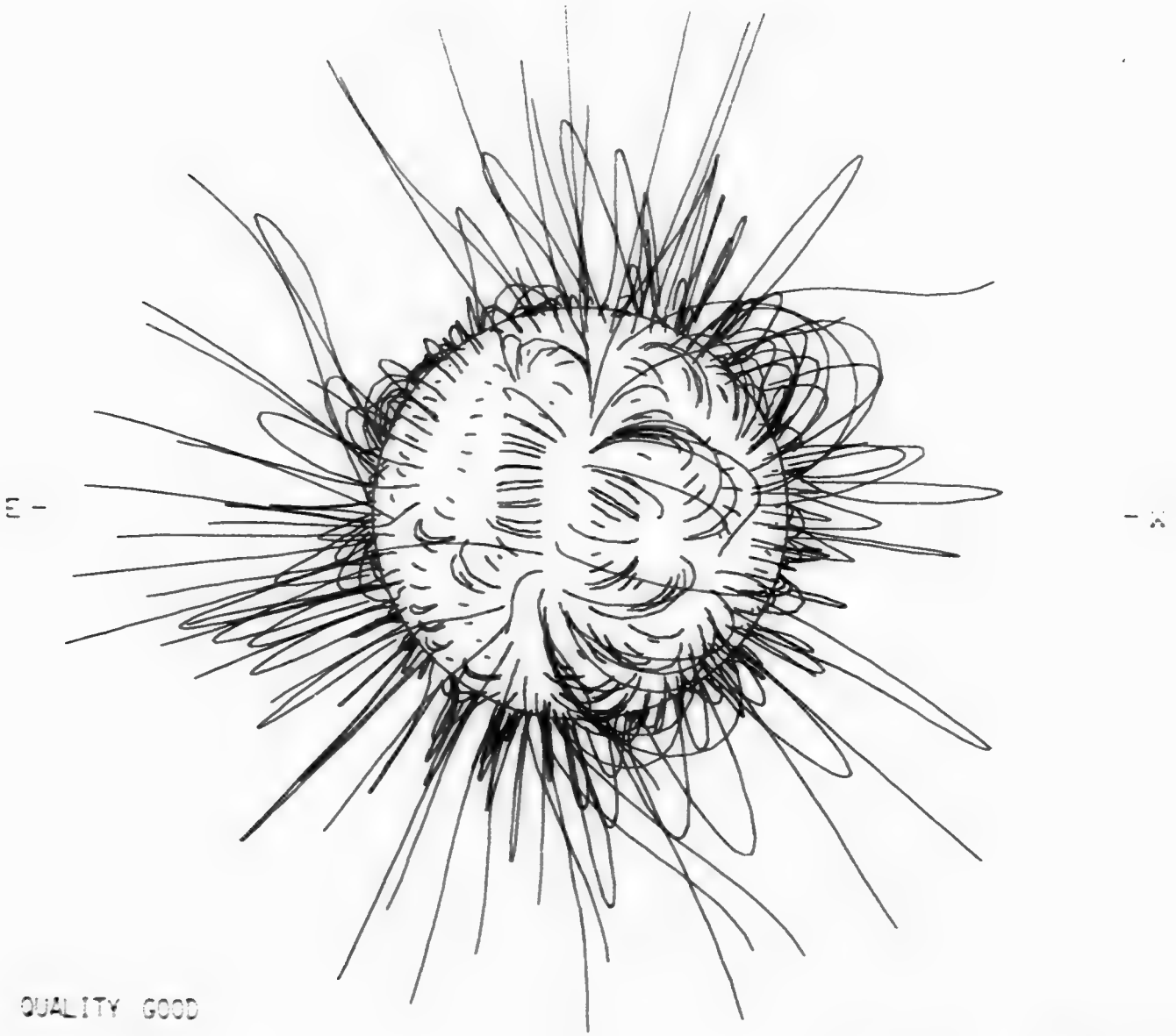
DATA WINDOW 1559.47

S

ROT. 1561 LONG. 261°

19.3 APR 1971

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



QUALITY GOOD

POLES DIRECT

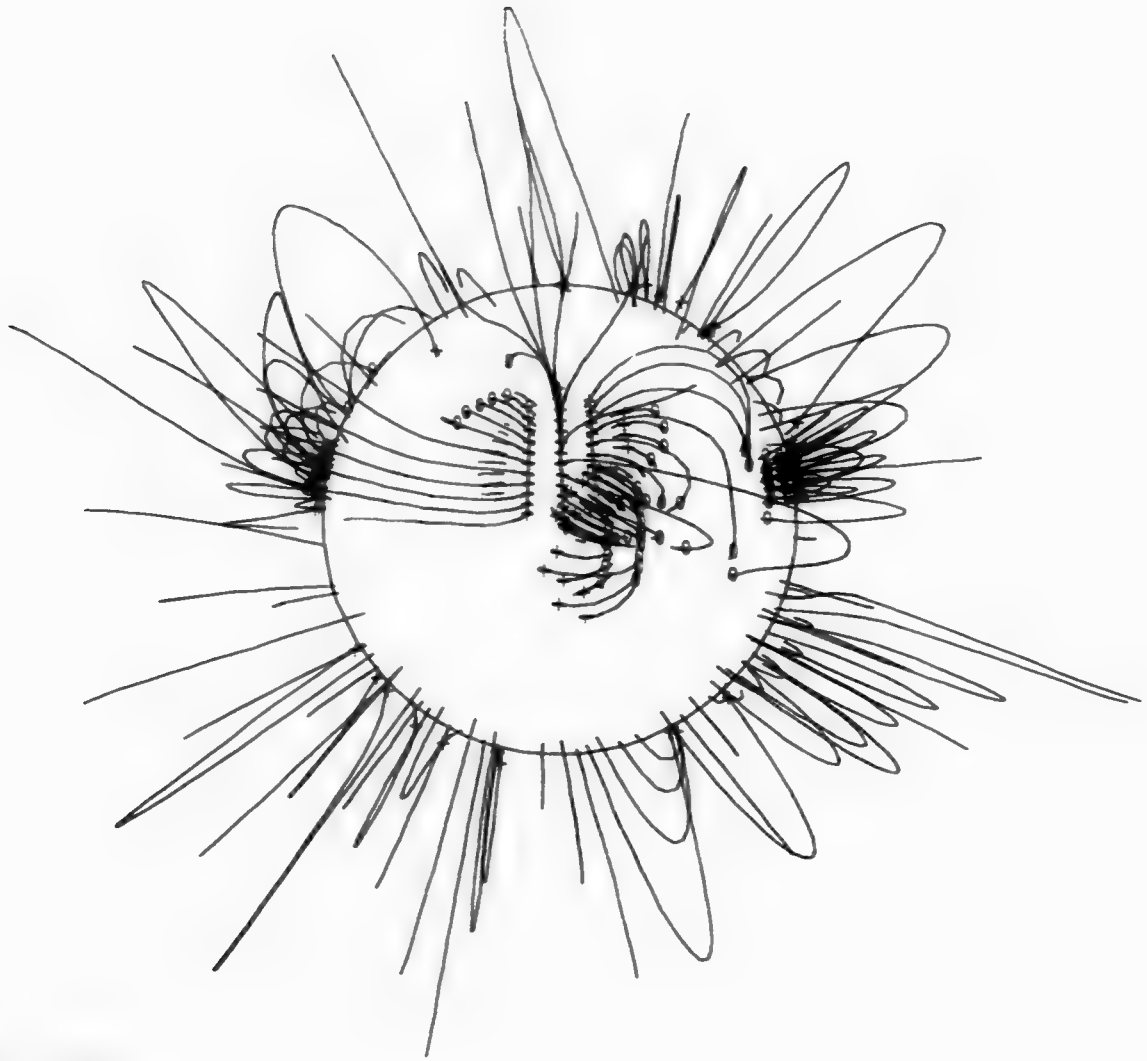
DATA WINDOW 1559.47

ROT. 1560 LONG. 27°

20.0 APR 197

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N



E

QUALITY GOOD

POLES DIRECT

DATA WINDOW 1559.47

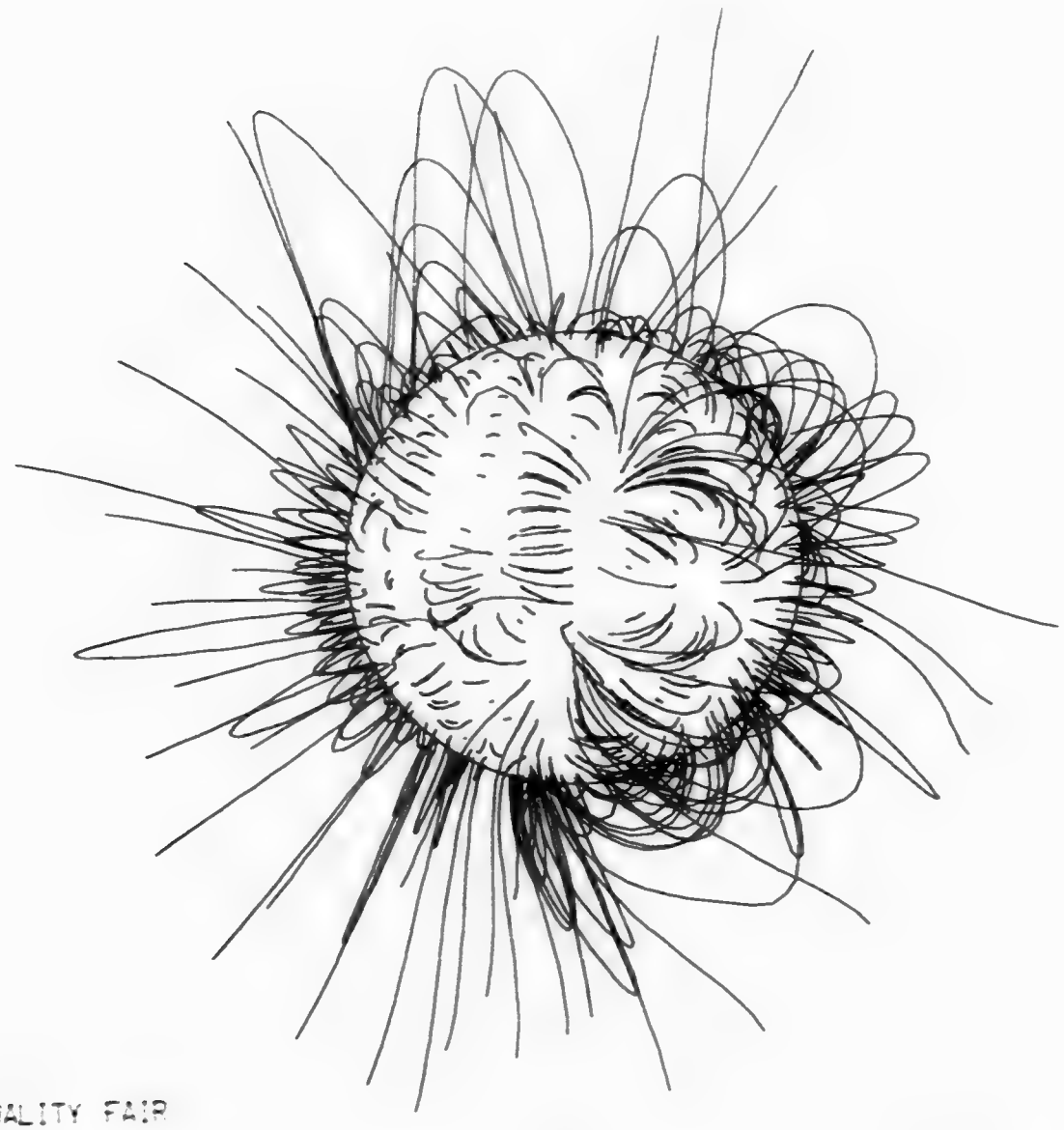
S

ROT. 1560 LONG. 270°

20.0 APR 1970

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N



E

A

S

QUALITY FAIR

POLES DIRECT

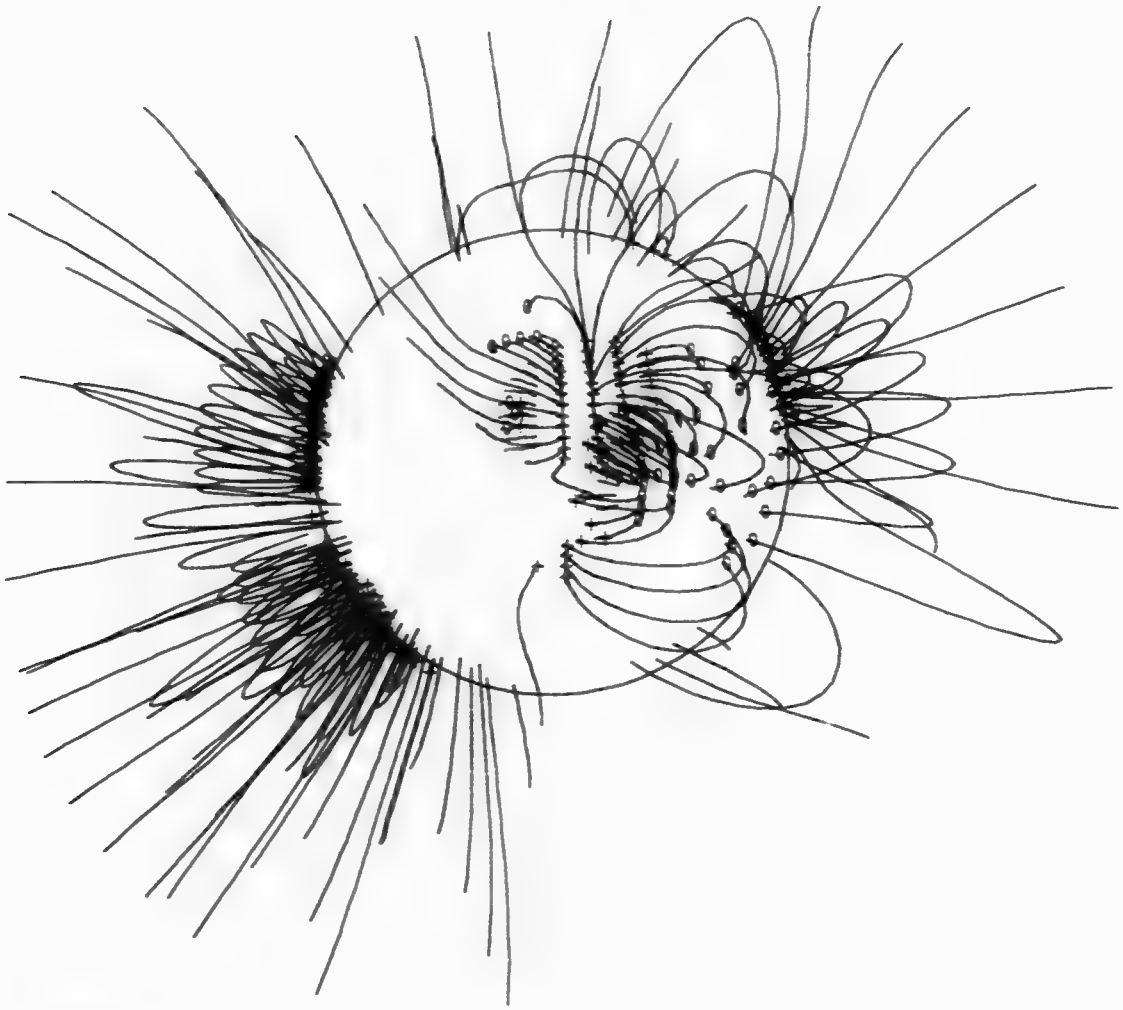
DATA WINDOW 1560.00

ROT. 1560 LONG. 260°

20.8 APR 1970

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N



E

A

S

QUALITY FAIR

POLES DIRECT

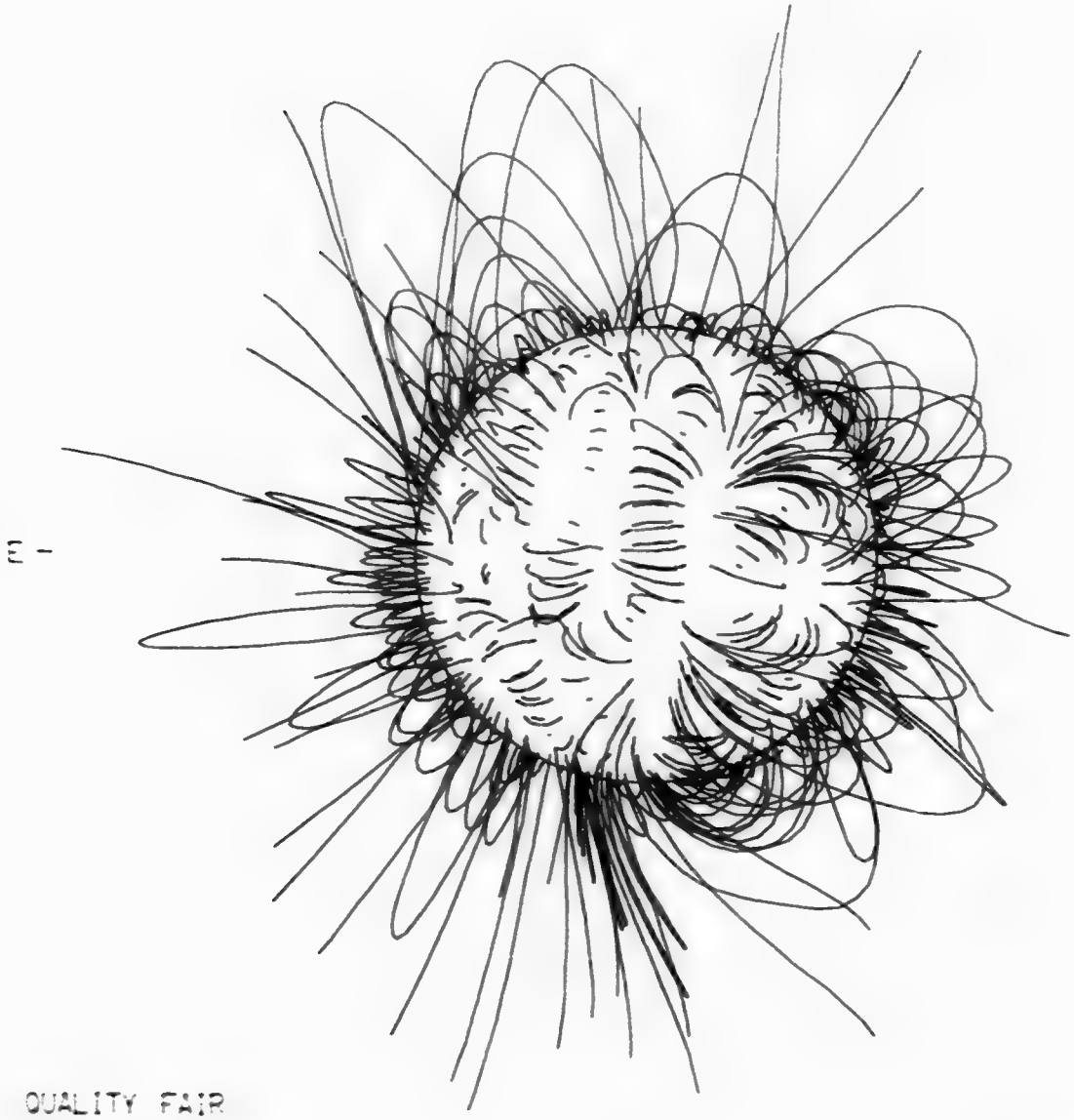
DATA WINDOW 1560.00

ROT. 1560 LONG. 260°

20.8 APR 1971

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N



E

A

S

QUALITY FAIR

POLES DIRECT

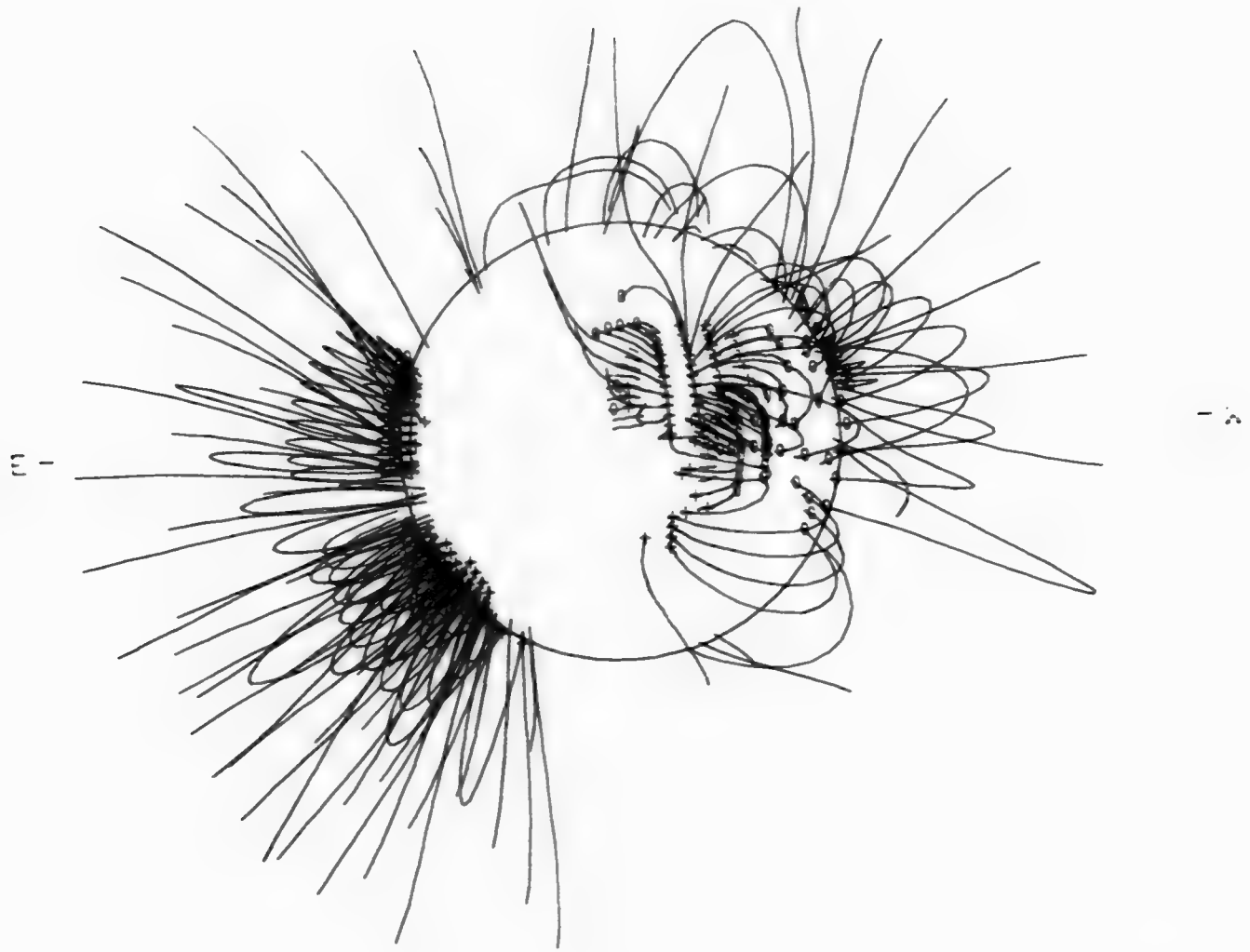
DATA WINDOW 1560.00

ROT. 1560 LONG. 25[illegible]

21.5 APR 197[illegible]

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N



E

A

QUALITY FAIR

POLES DIRECT

DATA WINDOW 1560.00

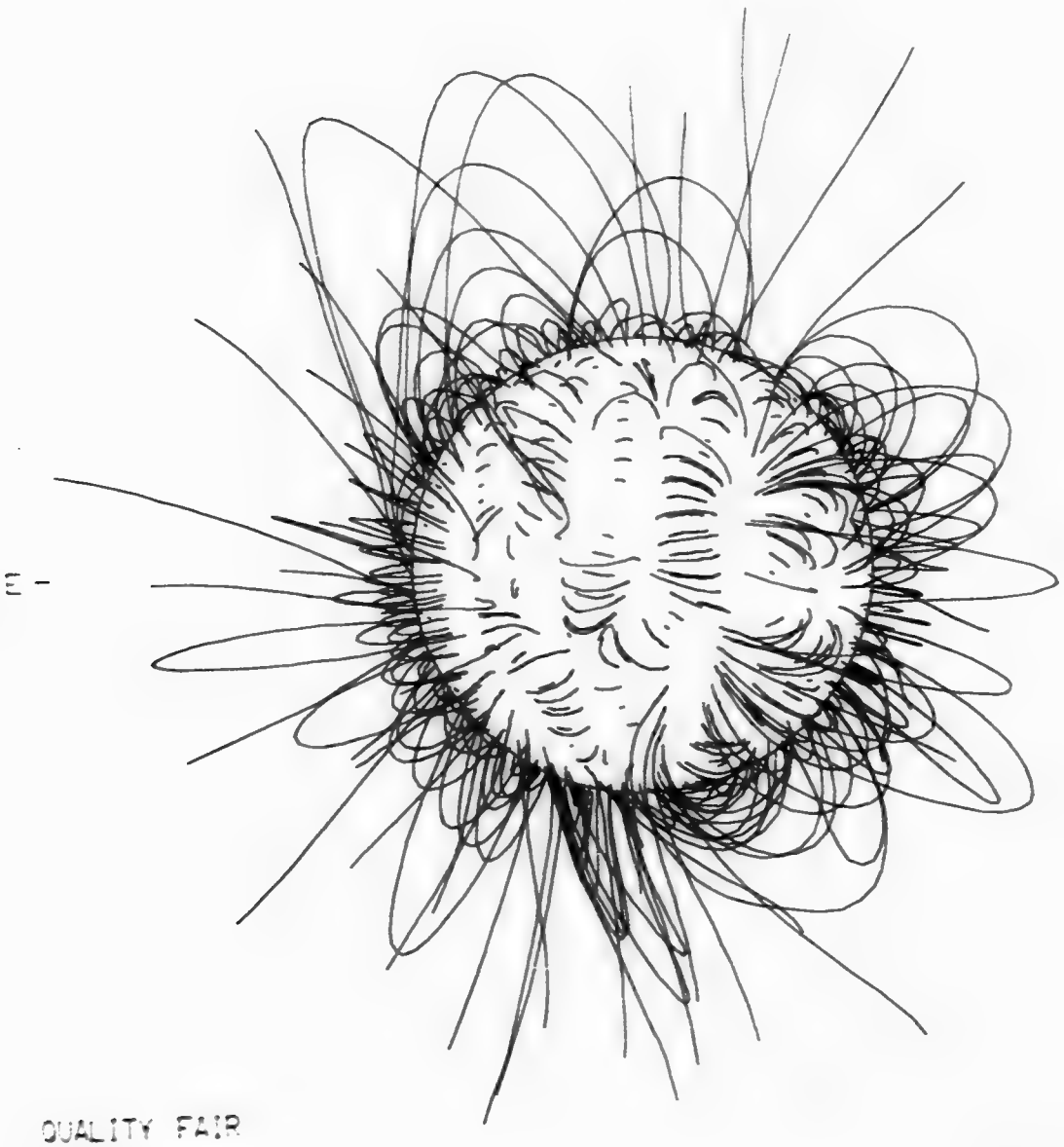
S

ROT. 1560 LONG. 250°

21.5 APR 1970

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N



E

A

QUALITY FAIR

POLES DIRECT

DATA WINDOW 1560.00

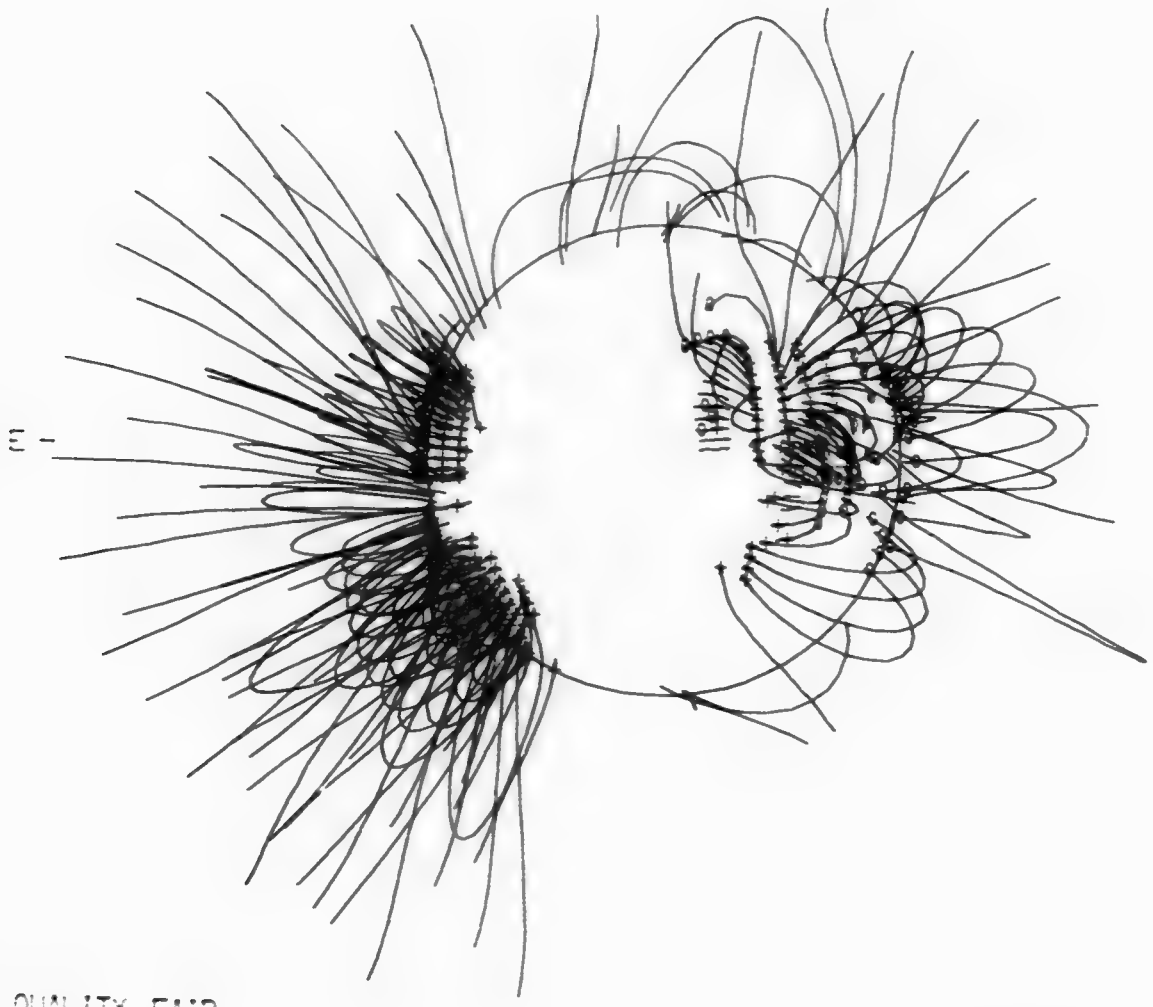
S

ROT. 1560 LONG. 240°

22.3 APR 1970

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N



QUALITY FAIR

POLES DIRECT

DATA WINDOW 1560.00

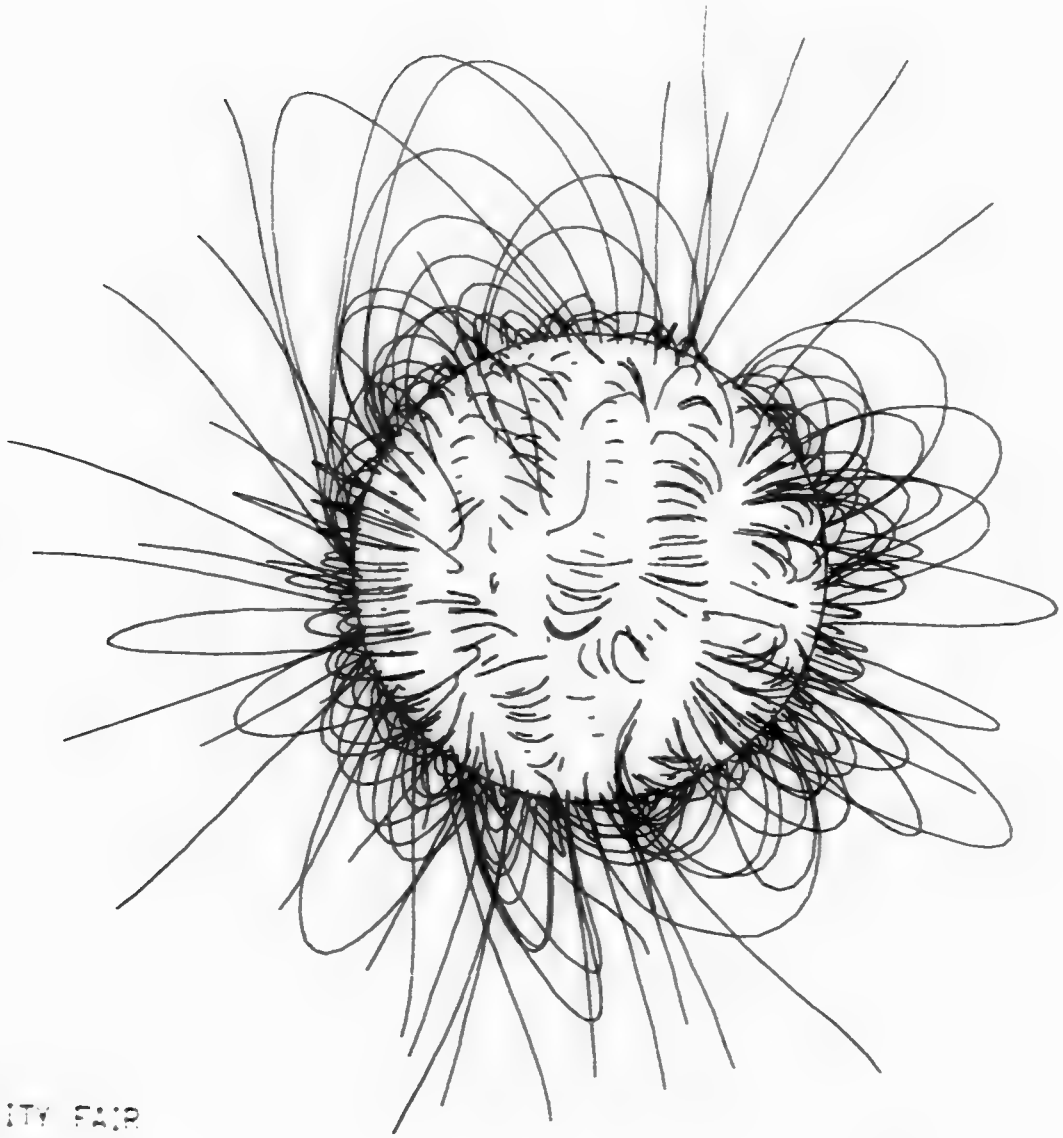
S

ROT. 1561 LONG. 241°

22.3 APR 197?

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N



E

A

QUALITY FAIR

POLES DIRECT

DATA WINDOW 1560.00

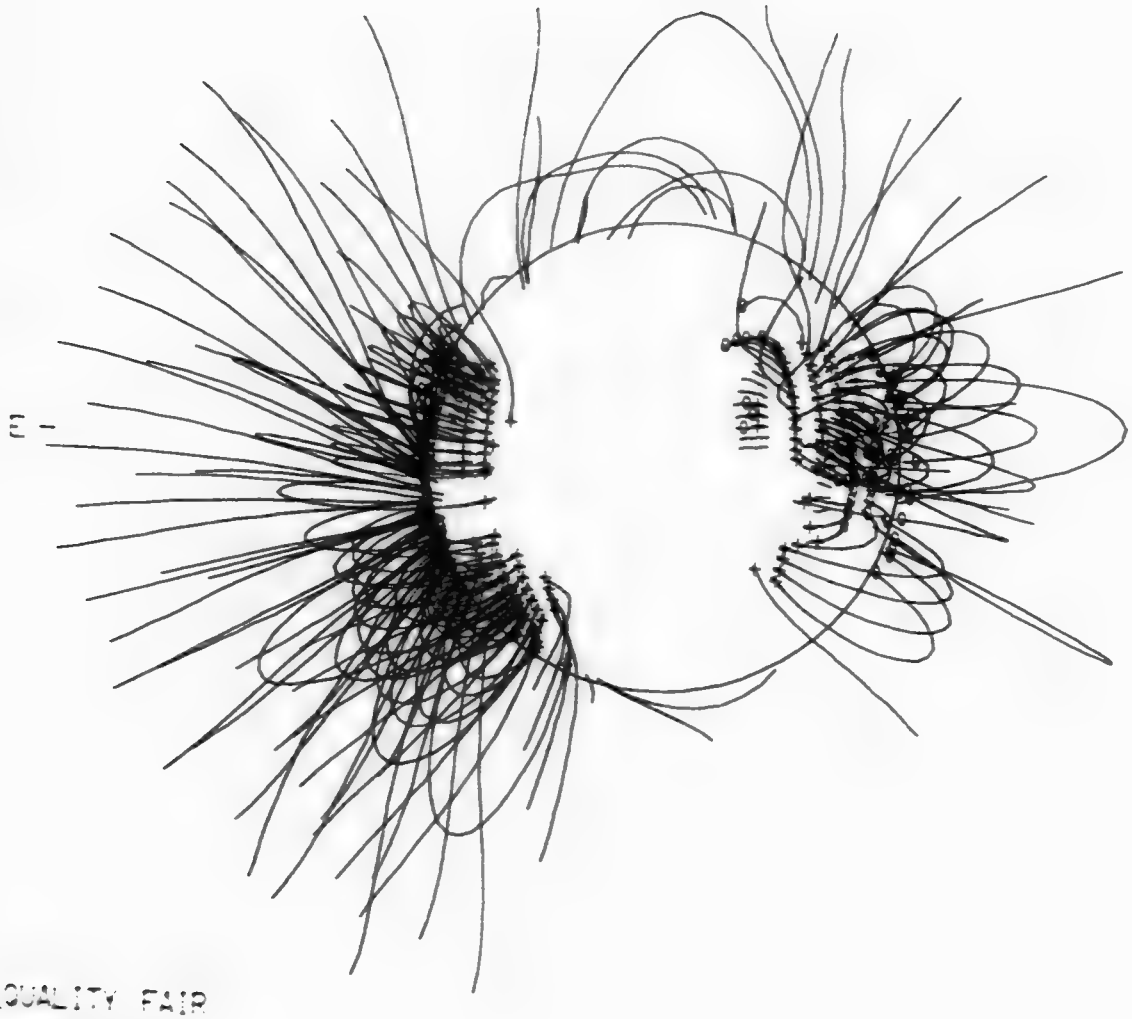
S

ROT. 1560 LONG. 250°

23.0 APR 197[illegible]

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N



E

A

QUALITY FAIR

POLES DIRECT

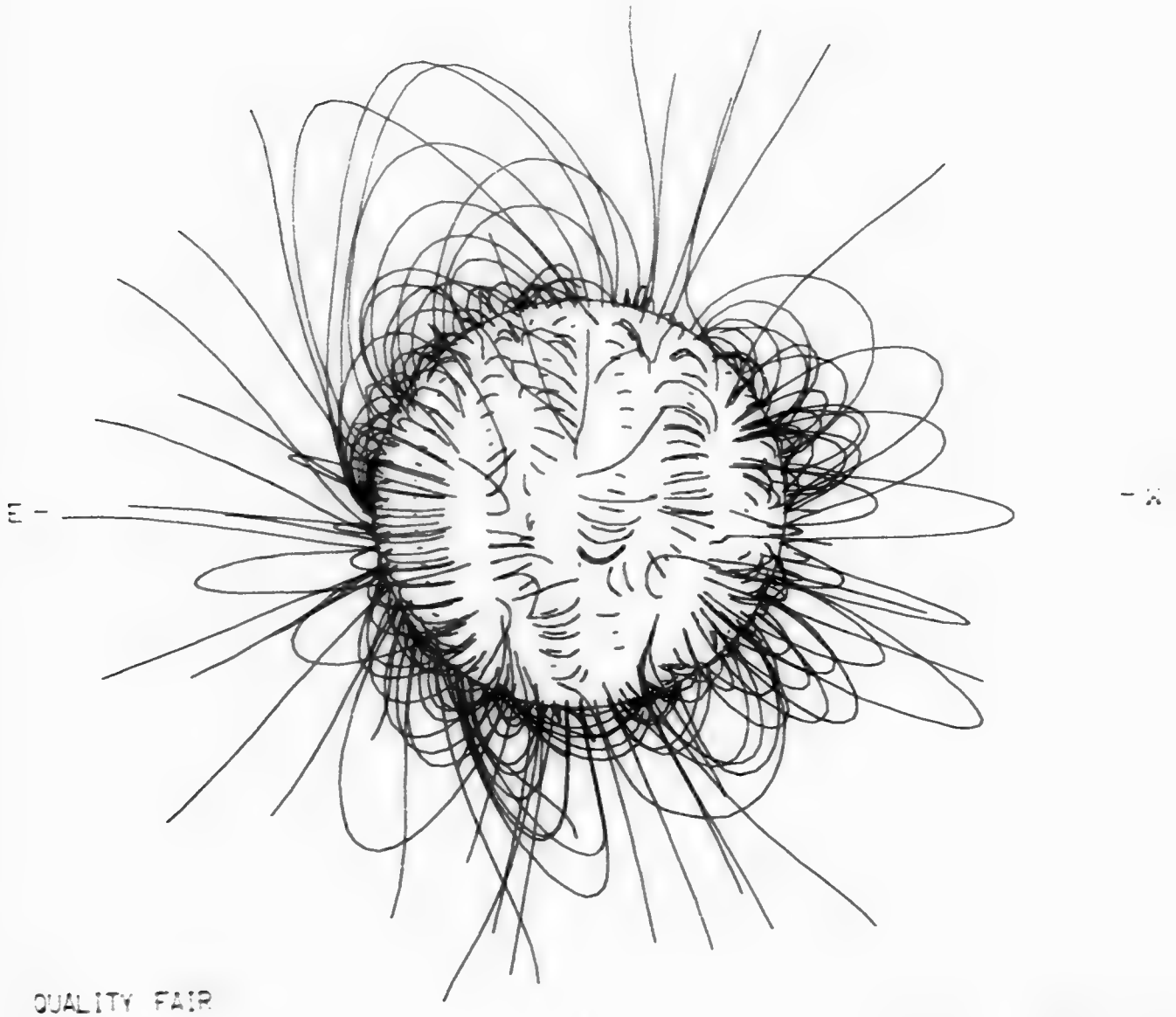
DATA WINDOW 1560.00

S

ROT. 1560 LONG. 251°

23.0 APR 1970

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



QUALITY FAIR

POLES DIRECT

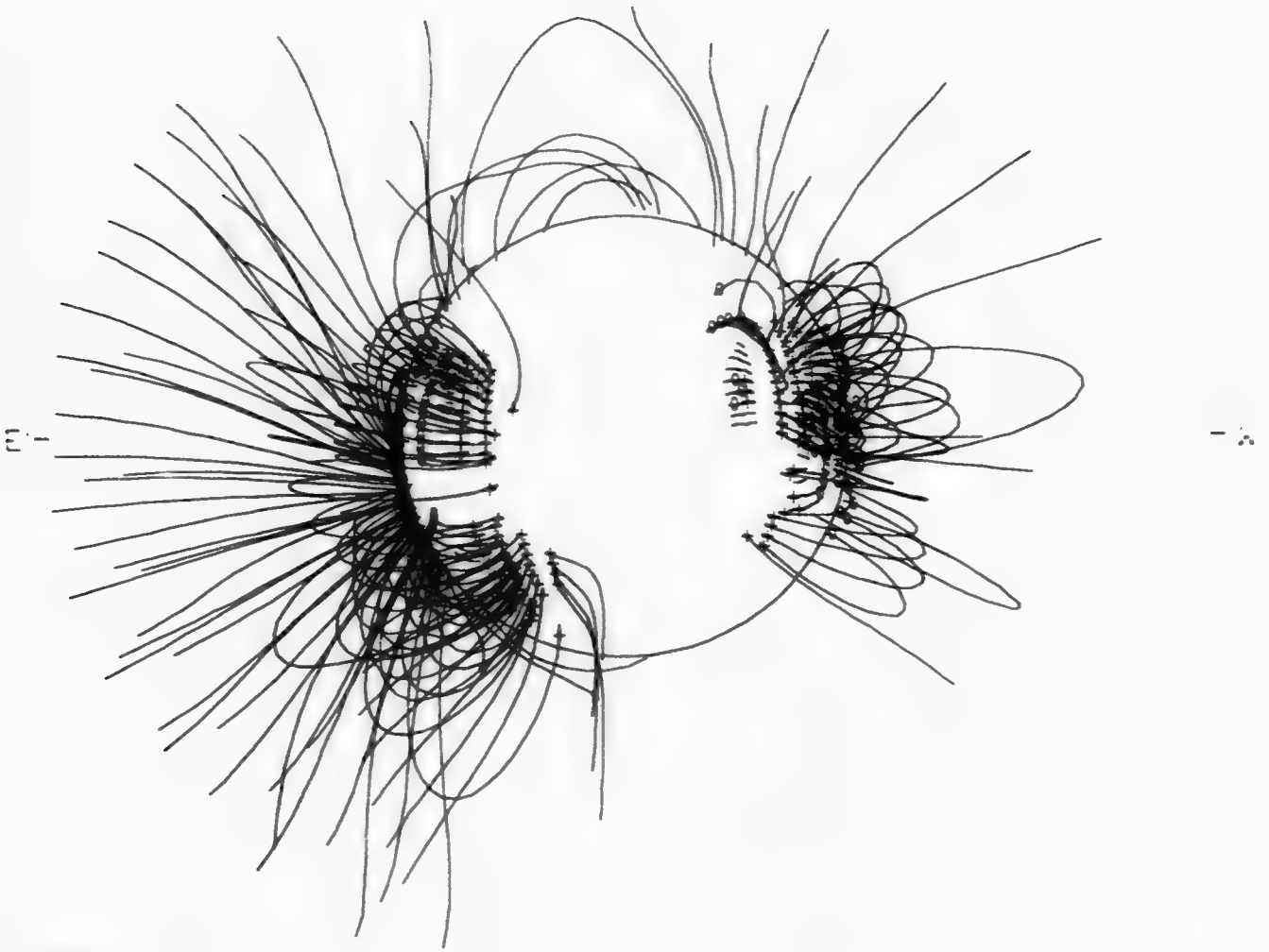
DATA WINDOW 1560.00

ROT. 1561 LONG. 221°

23.8 APR 1971

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N



QUALITY FAIR

POLES DIRECT

DATA WINDOW 1560.00

S

ROT. 1560 LONG. 221°

23.8 APR 1970

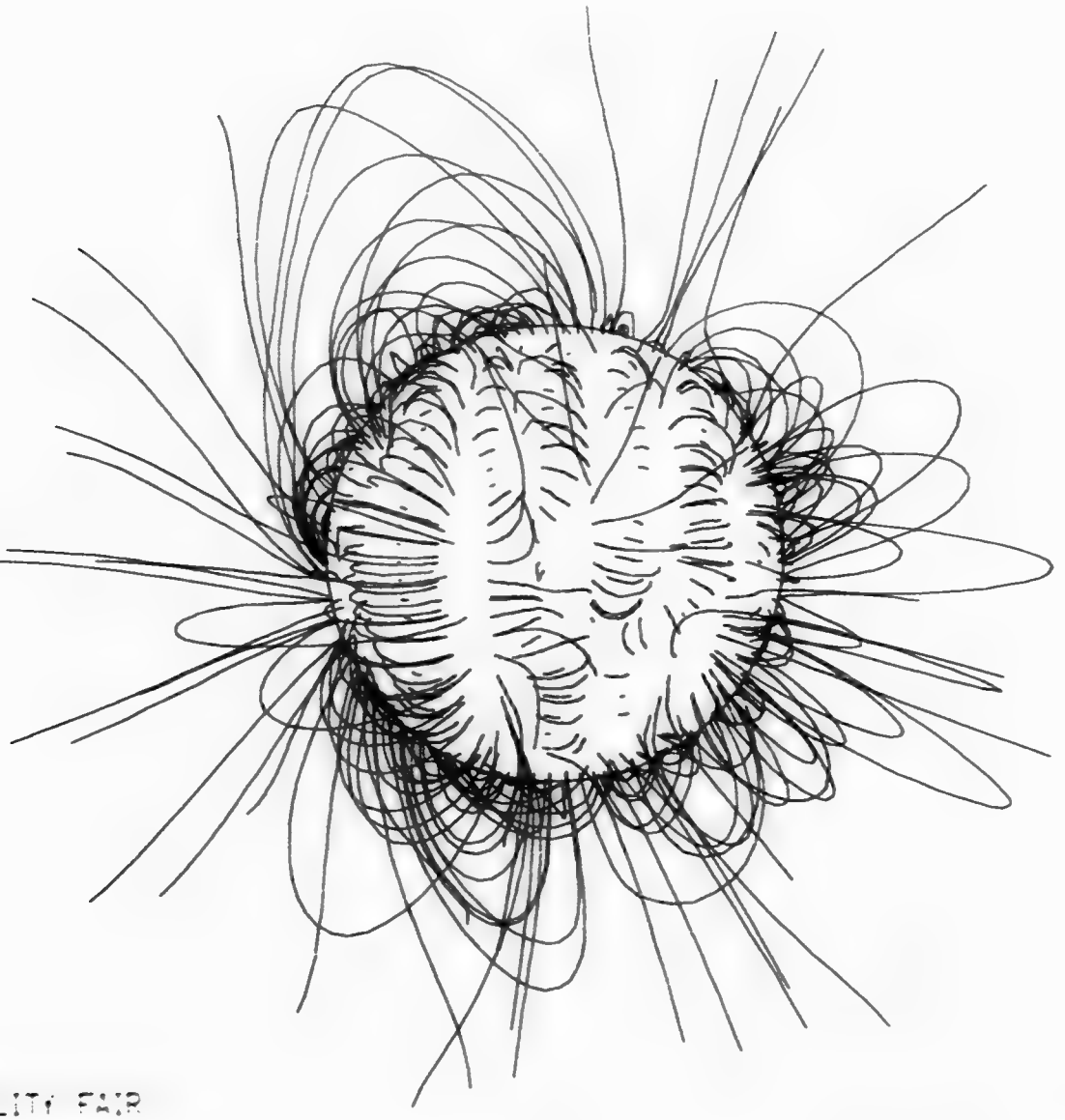
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N

E

A

S



QUALITY FAIR

POLES DIRECT

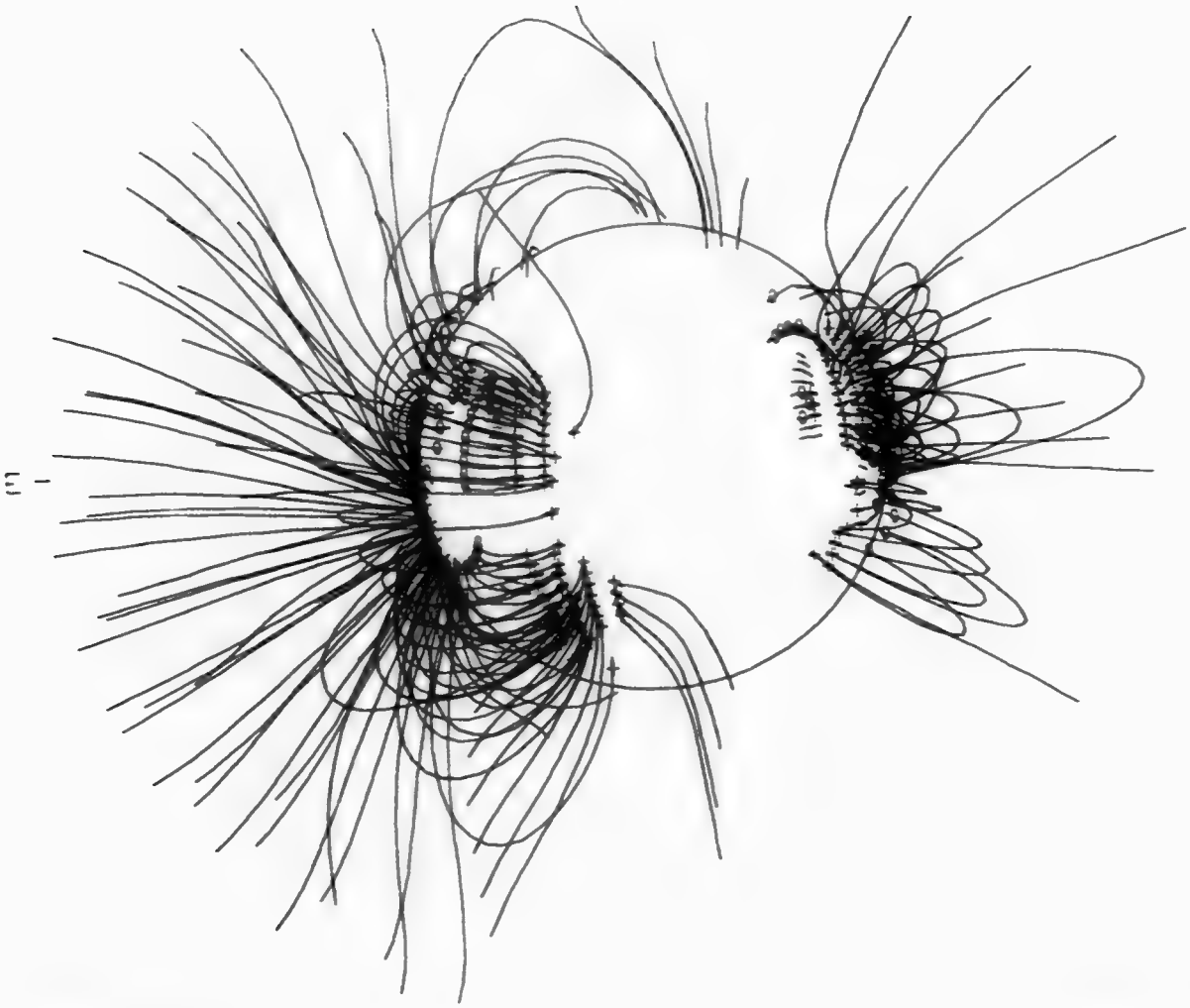
DATA WINDOW 1560.00

ROT. 1561 LONG. 210°

24.5 APR 1971

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N



E

A

QUALITY FAIR

POLES DIRECT

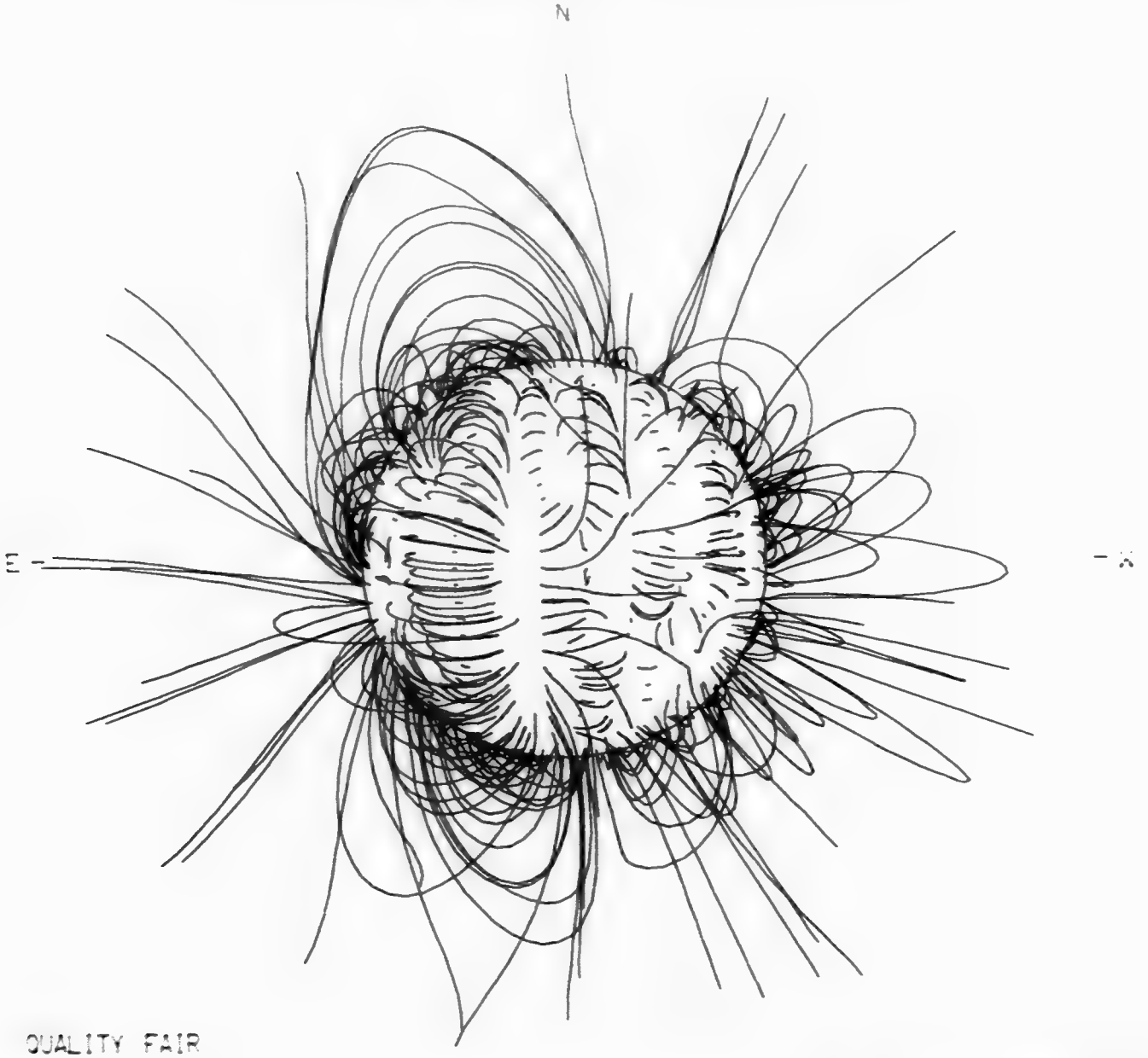
DATA WINDOW 1560.00

S

ROT. 1560 LONG. 21°

24.5 APR 1970

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



QUALITY FAIR

POLES DIRECT

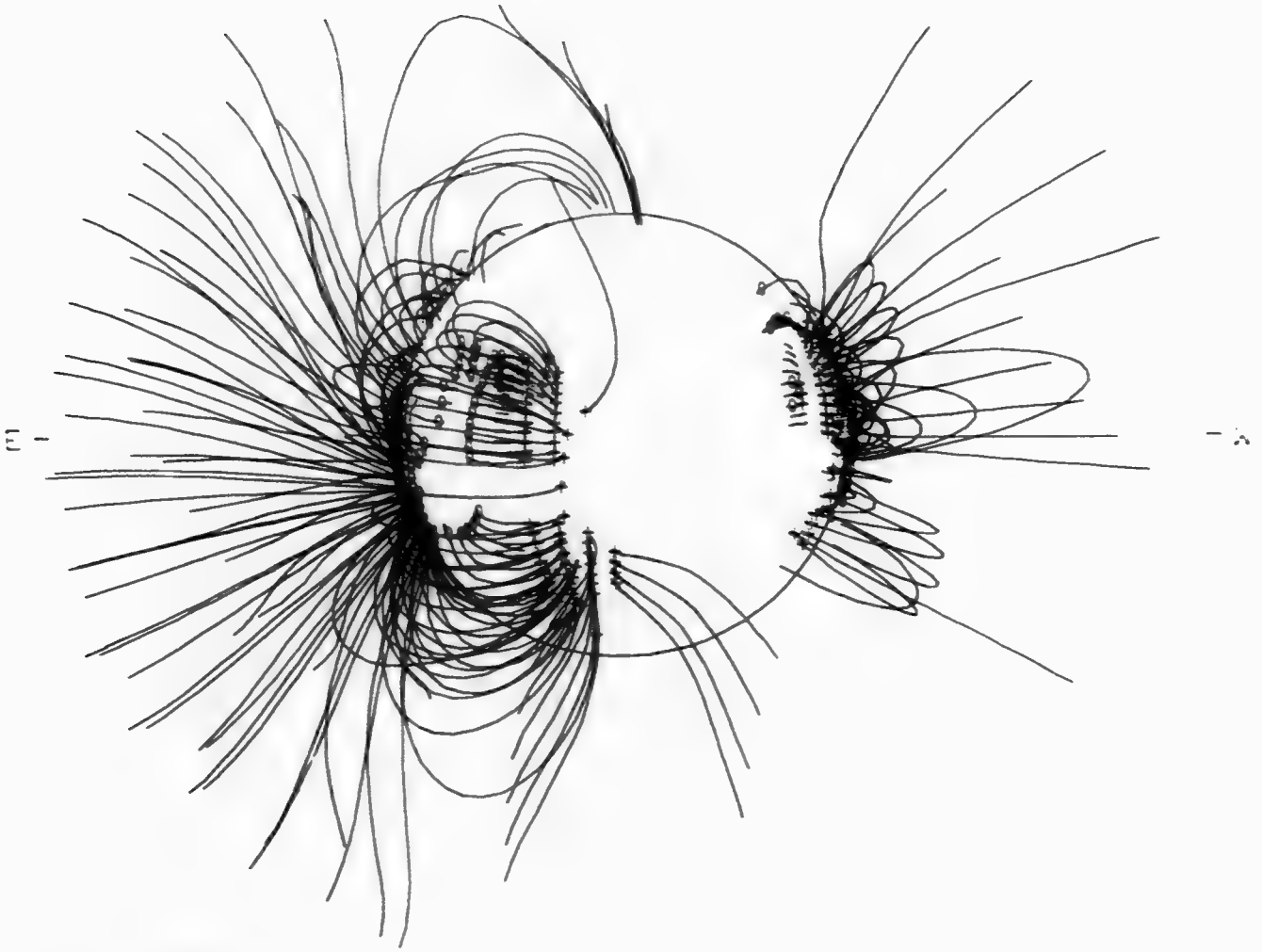
DATA WINDOW 1560.00

ROT. 1561 LONG. 200°

25.5 APR 1970

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N



S

QUALITY FAIR

POLES DIRECT

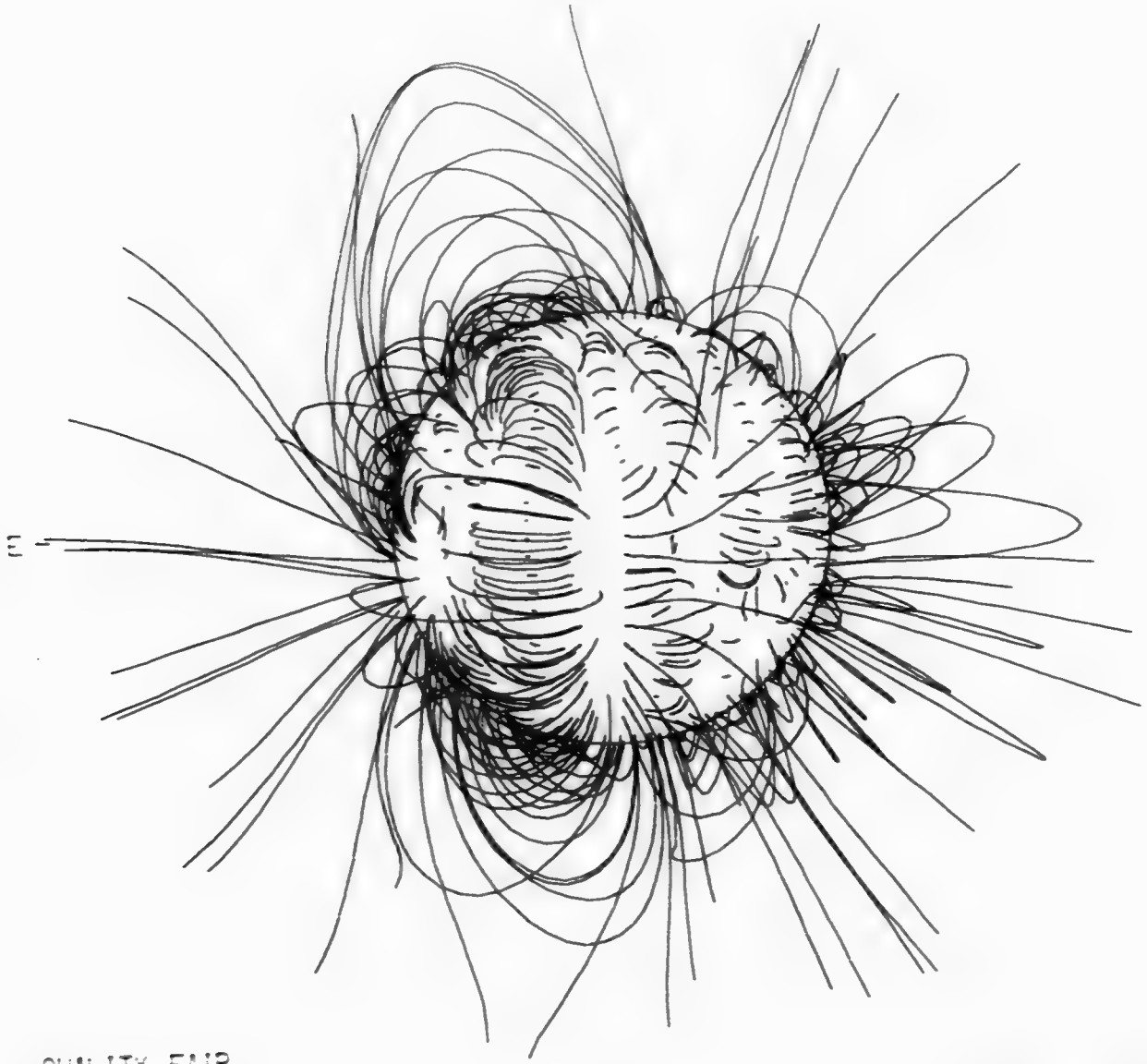
DATA WINDOW 1560.00

ROT. 1560 LONG. 233°

25.3 APR 1971

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N



E

A

QUALITY FAIR

POLES DIRECT

DATA WINDOW 1560.00

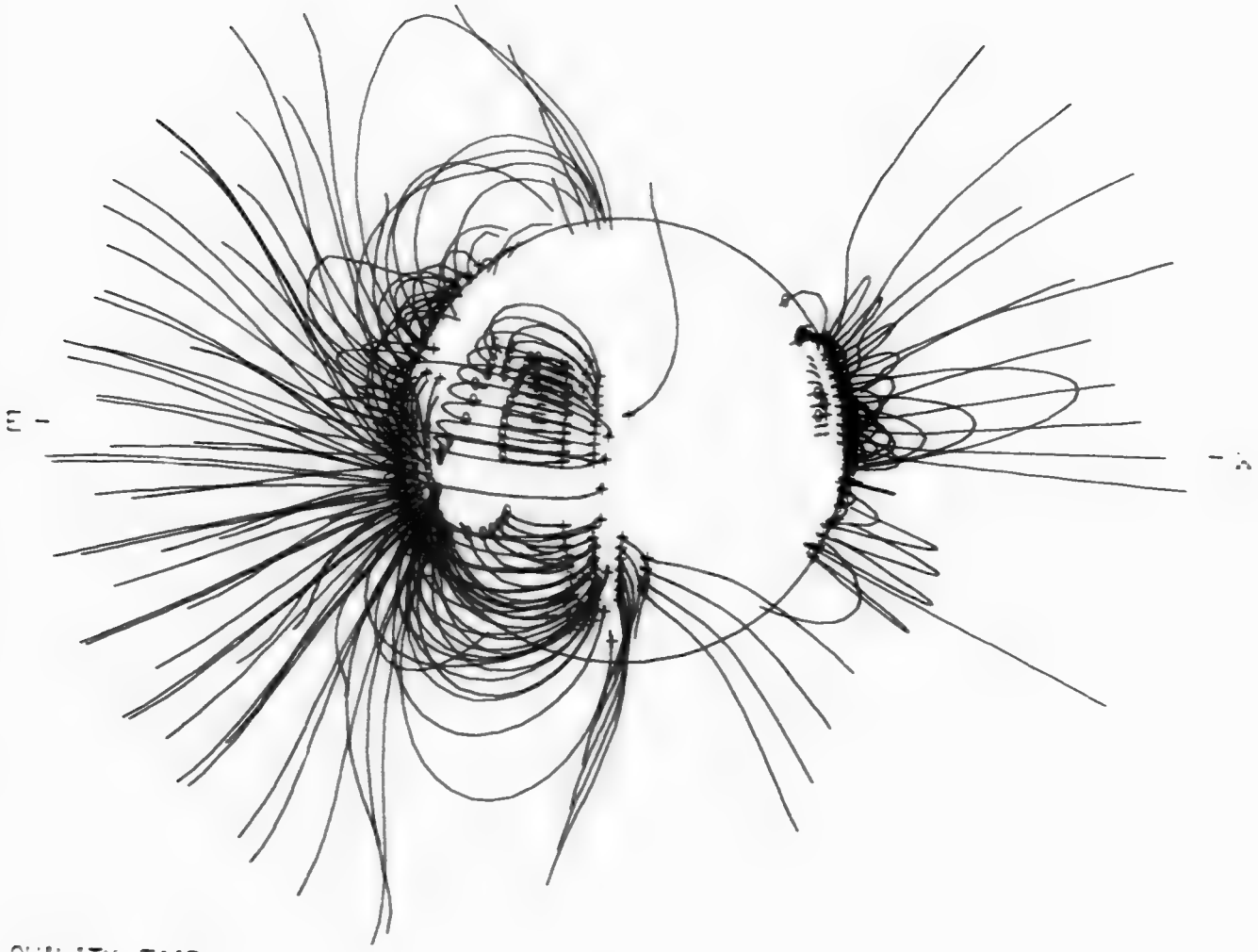
S

ROT. 1560 LONG. 19[illegible]°

26.1 APR 197[illegible]

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N



QUALITY FAIR

POLES DIRECT

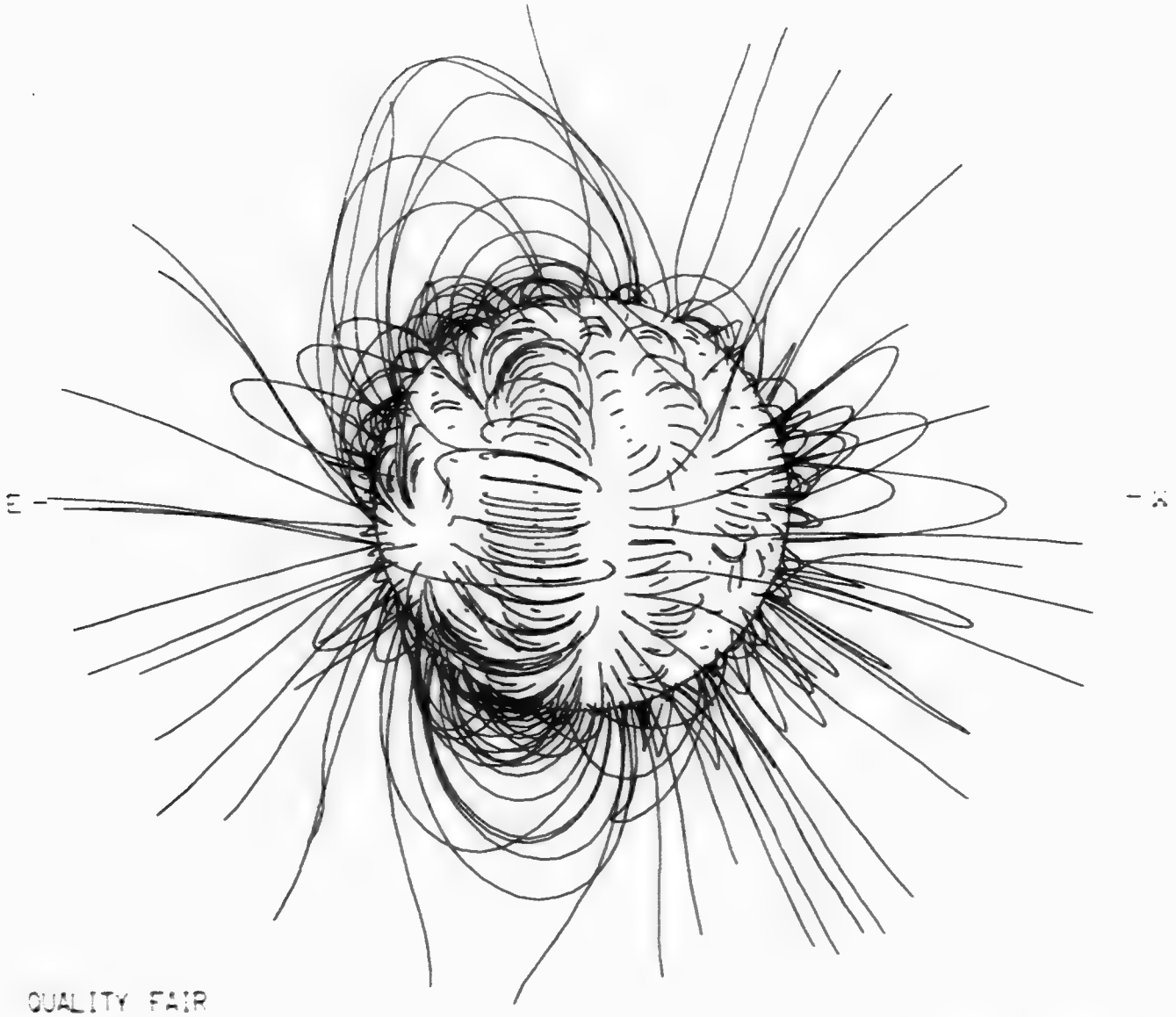
DATA WINDOW 1560.00

S

ROT. 1560 LONG. 19°

26.1 APR 1970

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



QUALITY FAIR

POLES DIRECT

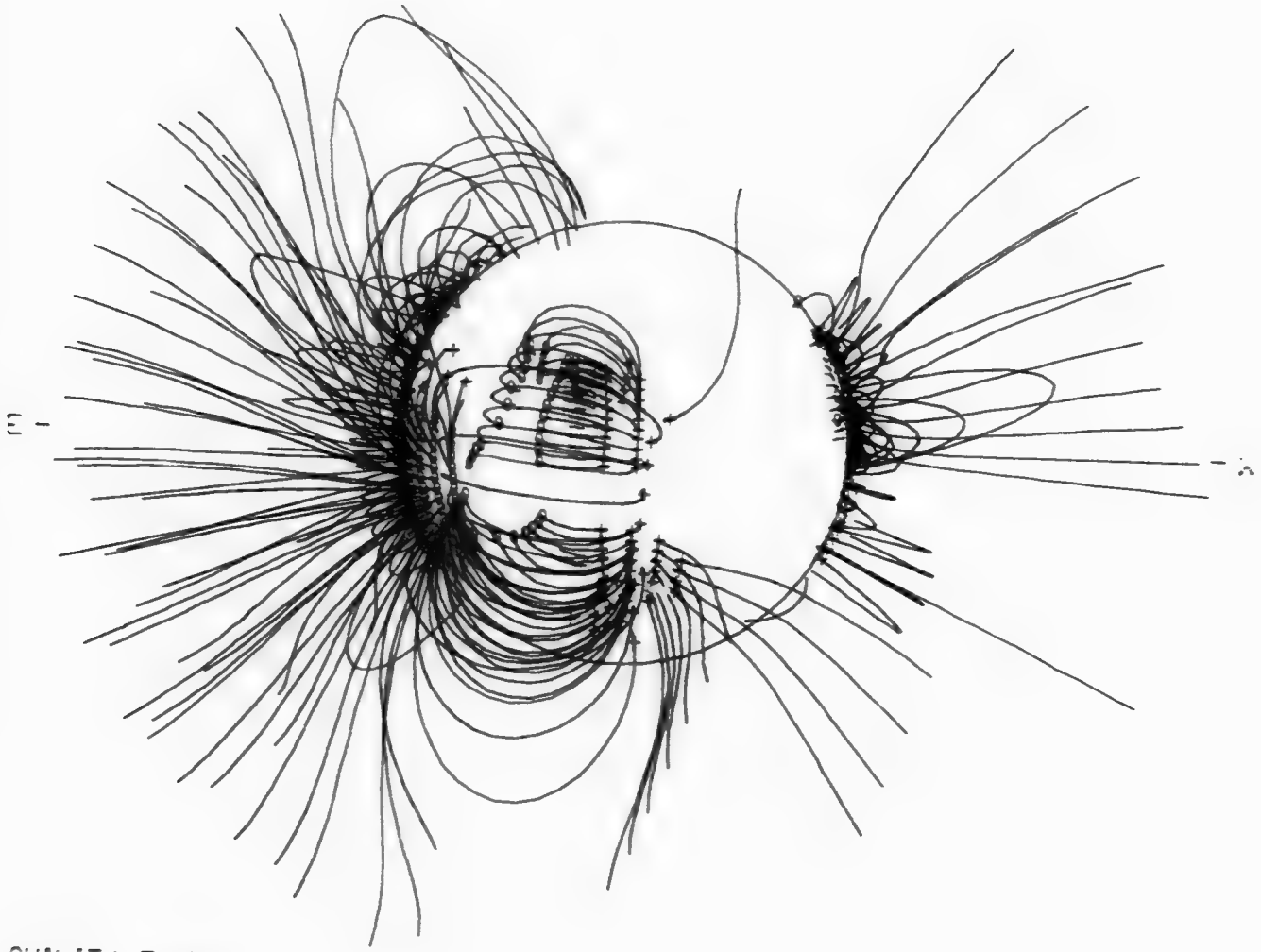
DATA WINDOW 1560.00

ROT. 1560 LONG. 180°

26.8 APR 1970

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N



QUALITY FAIR

POLES DIRECT

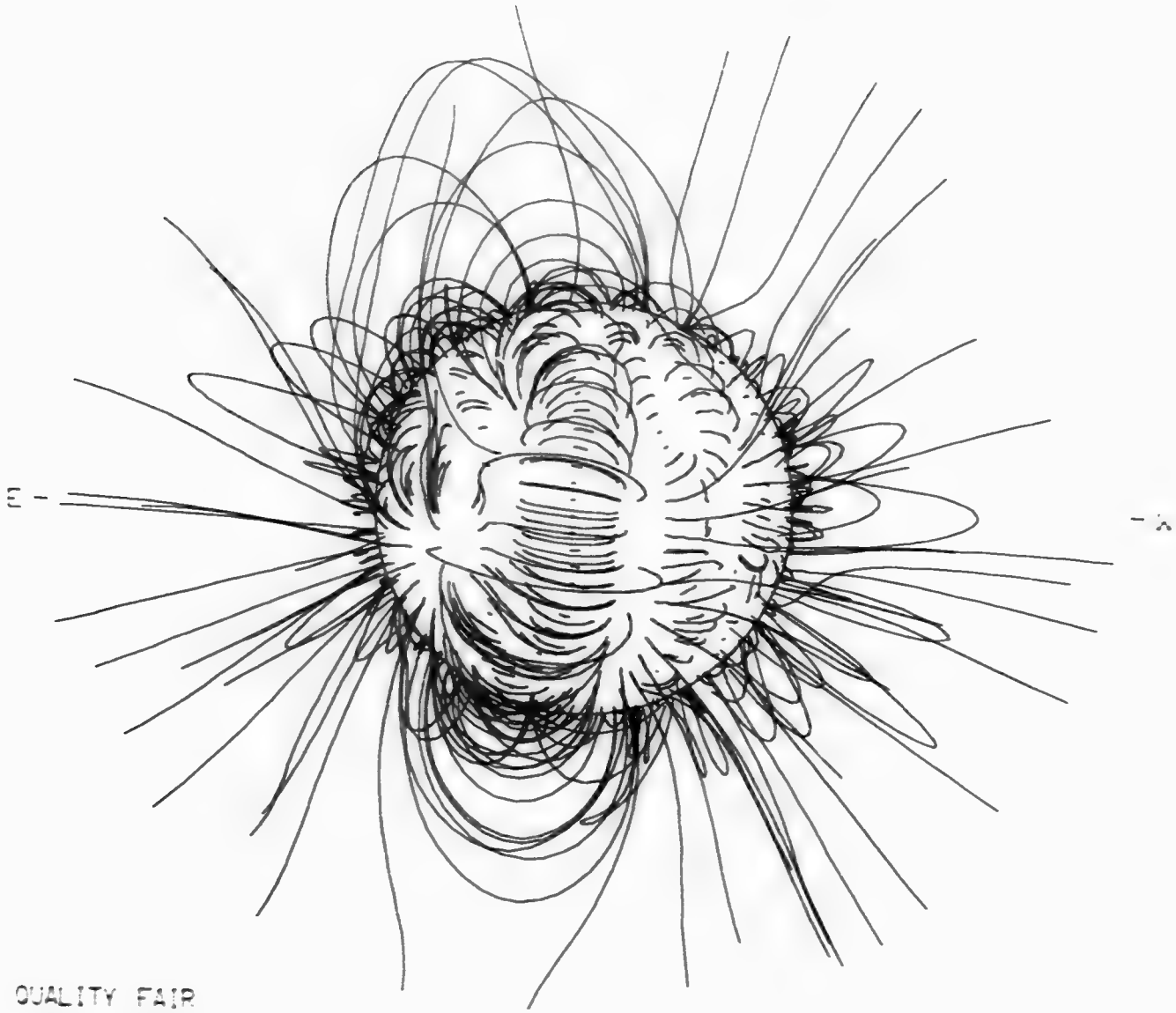
DATA WINDOW 1560.00

S

ROT. 1560 LONG. 180°

26.8 APR 197[illegible]

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



QUALITY FAIR

POLES DIRECT

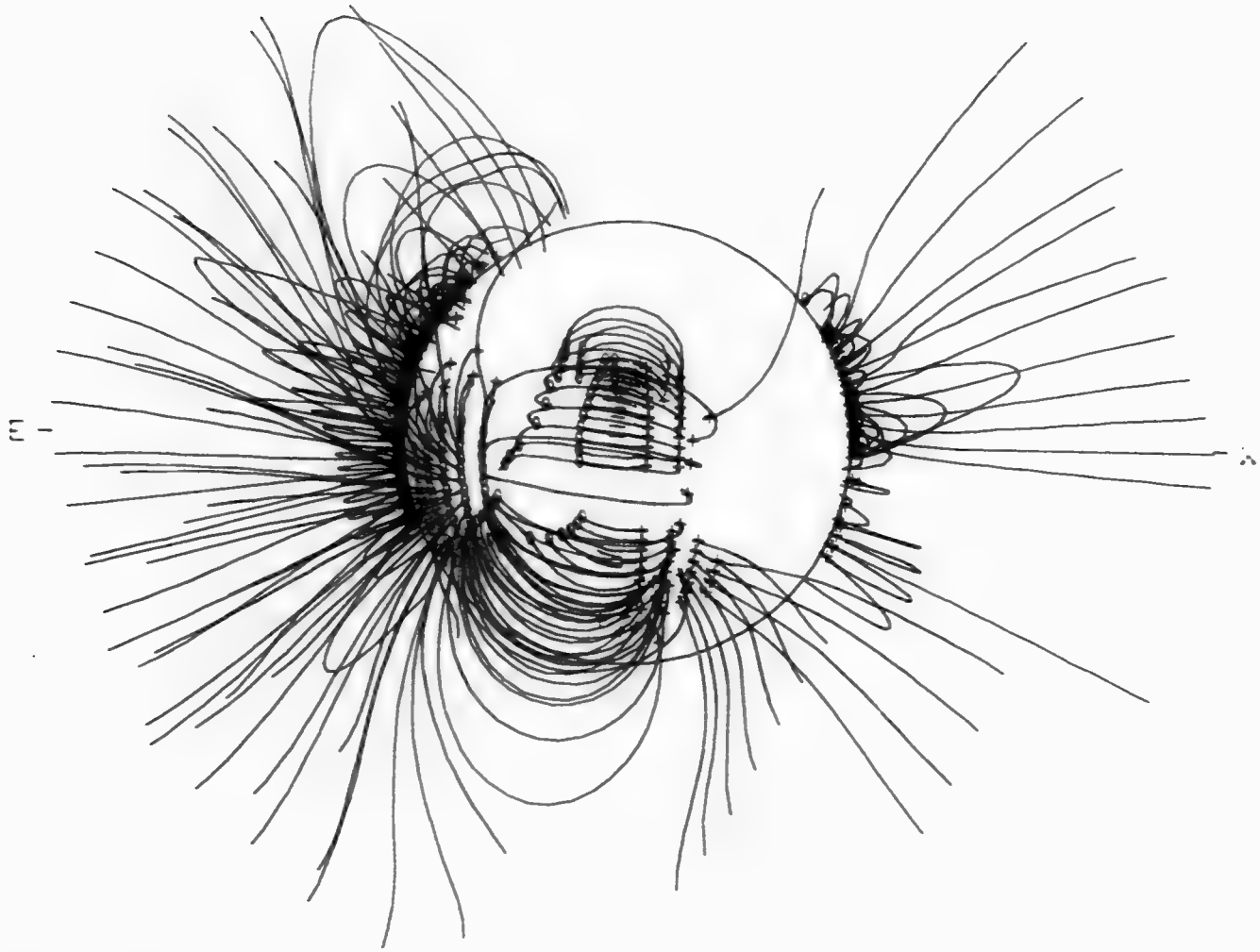
DATA WINDOW 1560.00

ROT. 1560 LONG. 17°

27.6 APR 1970

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N



QUALITY FAIR

POLES DIRECT

DATA WINDOW 1560.00

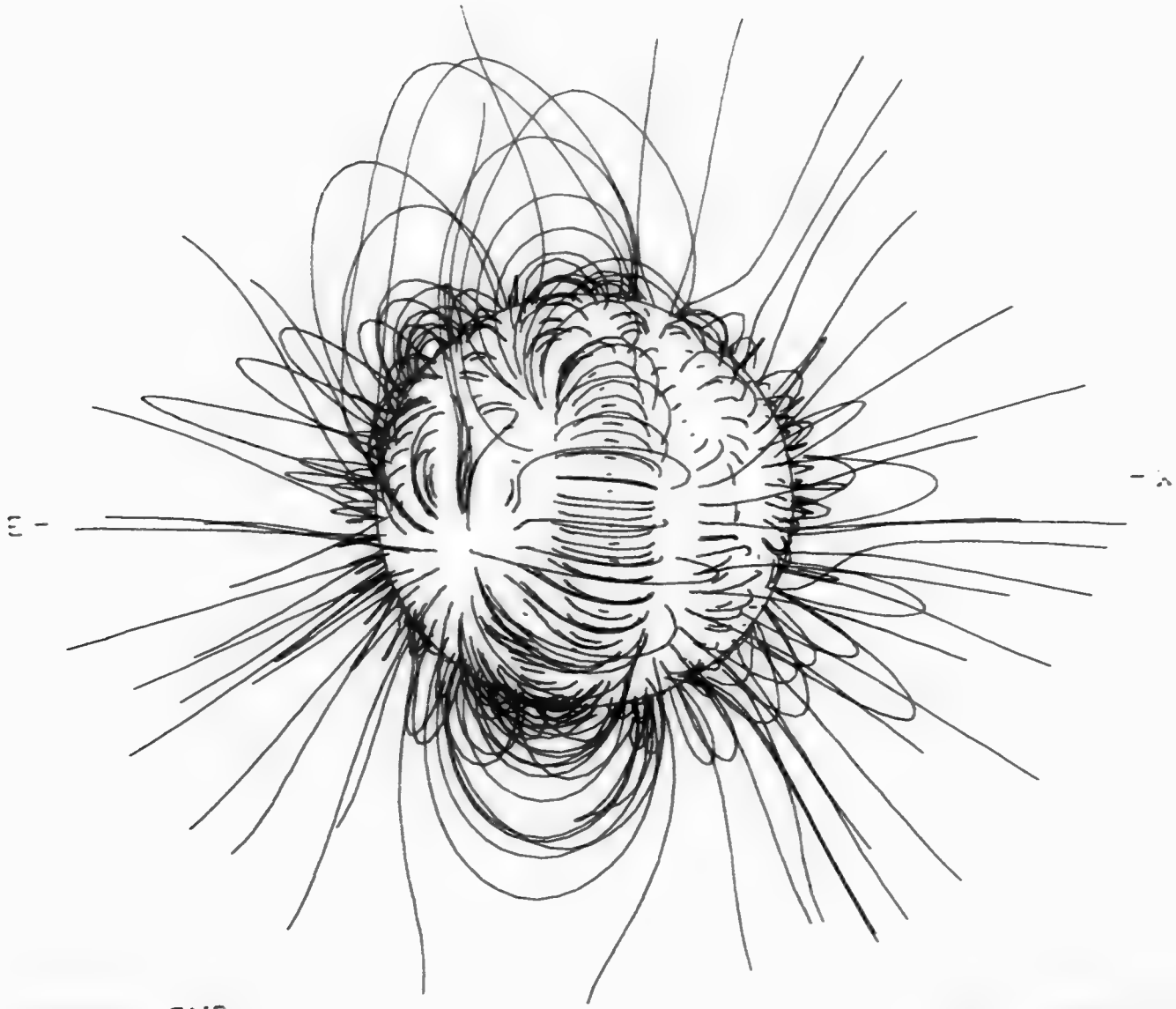
S

ROT. 1560 LONG. 17°

27.6 APR 1972

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N



QUALITY FAIR

POLES DIRECT

DATA WINDOW 1560.00

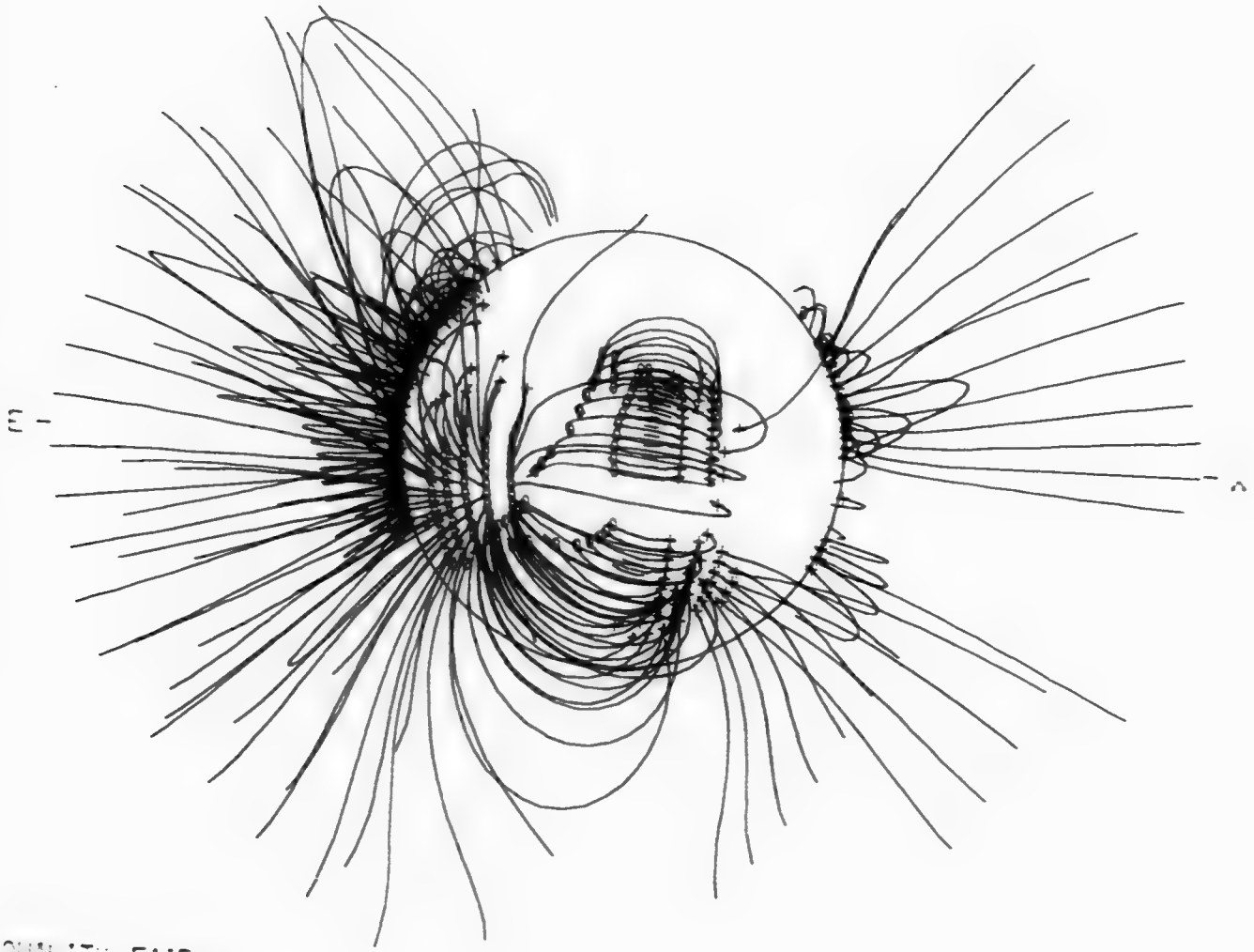
S

ROT. 1560 LONG. 161°

28.3 FEB 1971

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N



QUALITY FAIR

POLES DIRECT

DATA WINDOW 1560.00

S

ROT. 1560 LONG. 160°

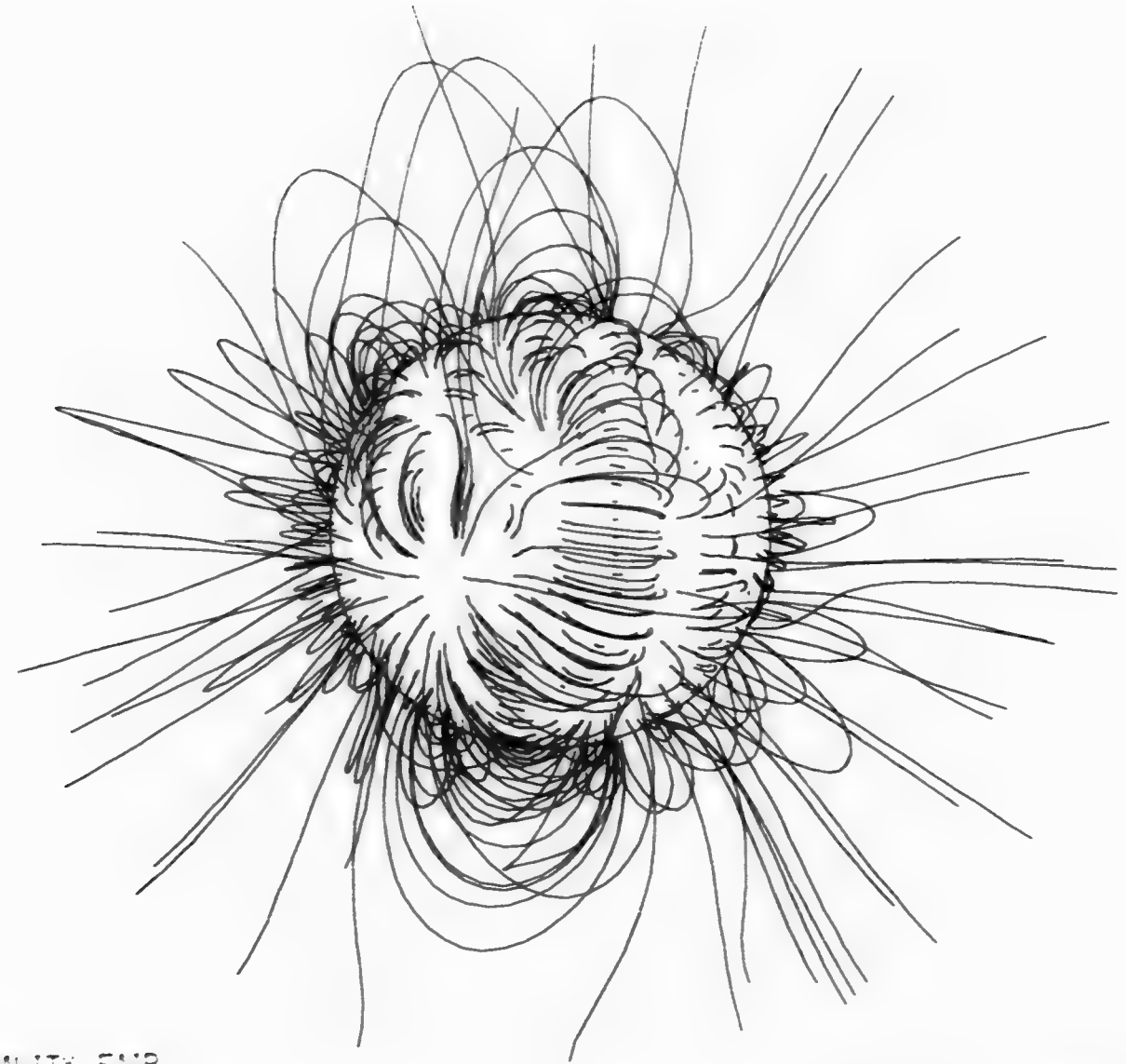
28.3 APR 197?

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N

E -

- X



S

QUALITY FAIR

POLES DIRECT

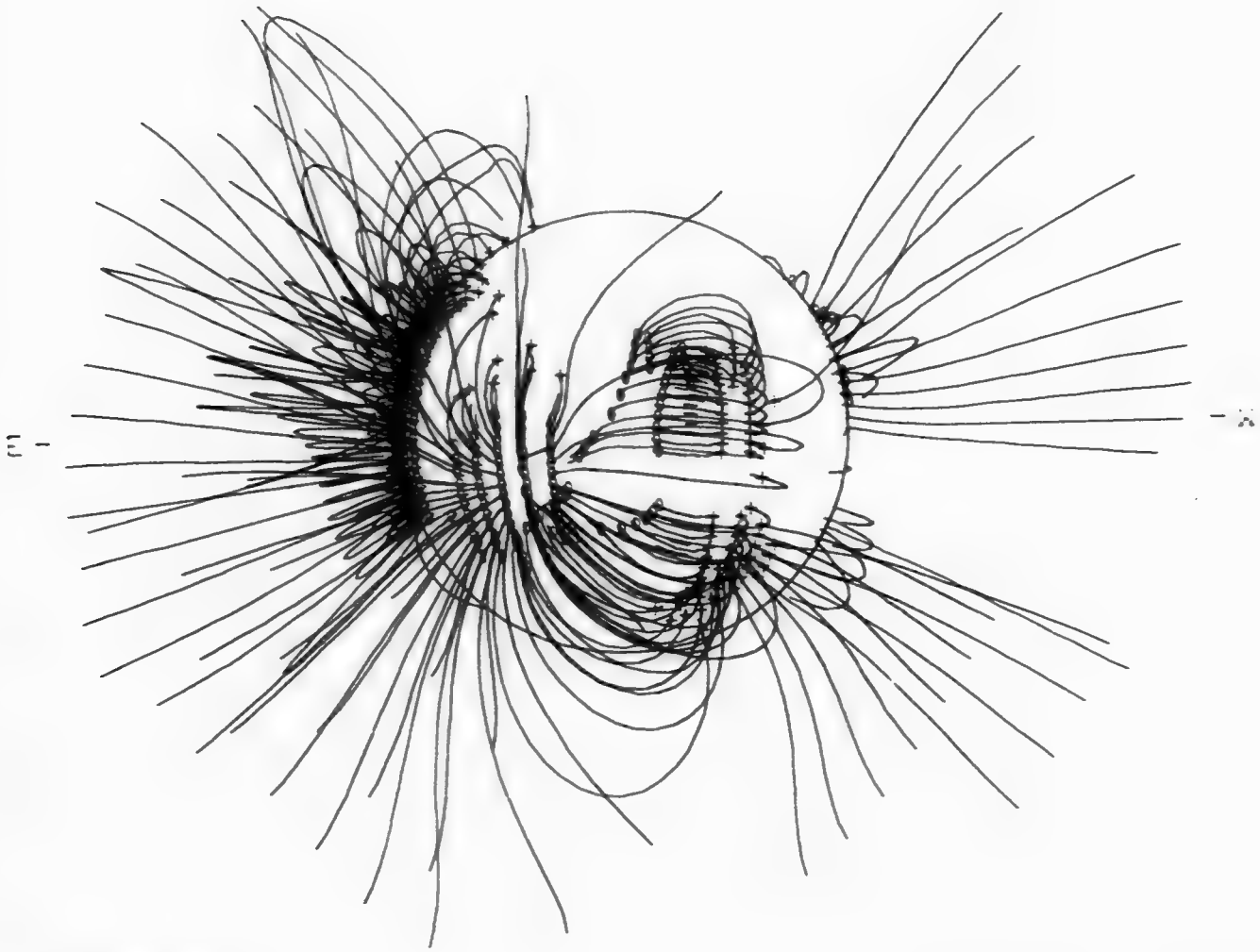
DATA WINDOW 1560.00

ROT. 1560 LONG. 15[illegible]°

29.1 APR 197[illegible]

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N



QUALITY FAIR

POLES DIRECT

DATA WINDOW 1560.00

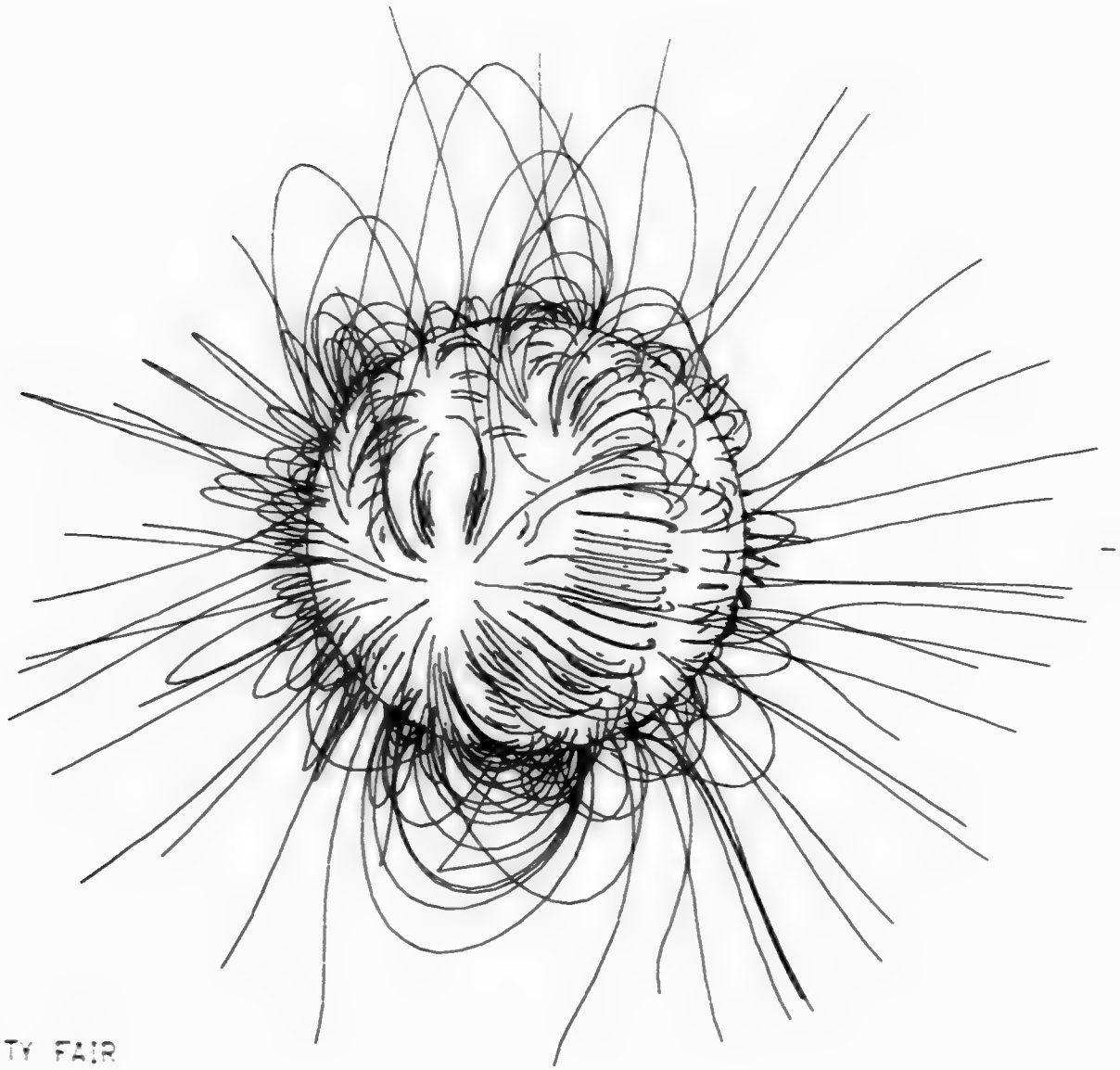
S

ROT. 1560 LONG. 150°

29.1 APR 197[illegible]

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N



E

A

QUALITY FAIR

POLES DIRECT

DATA WINDOW 1560.00

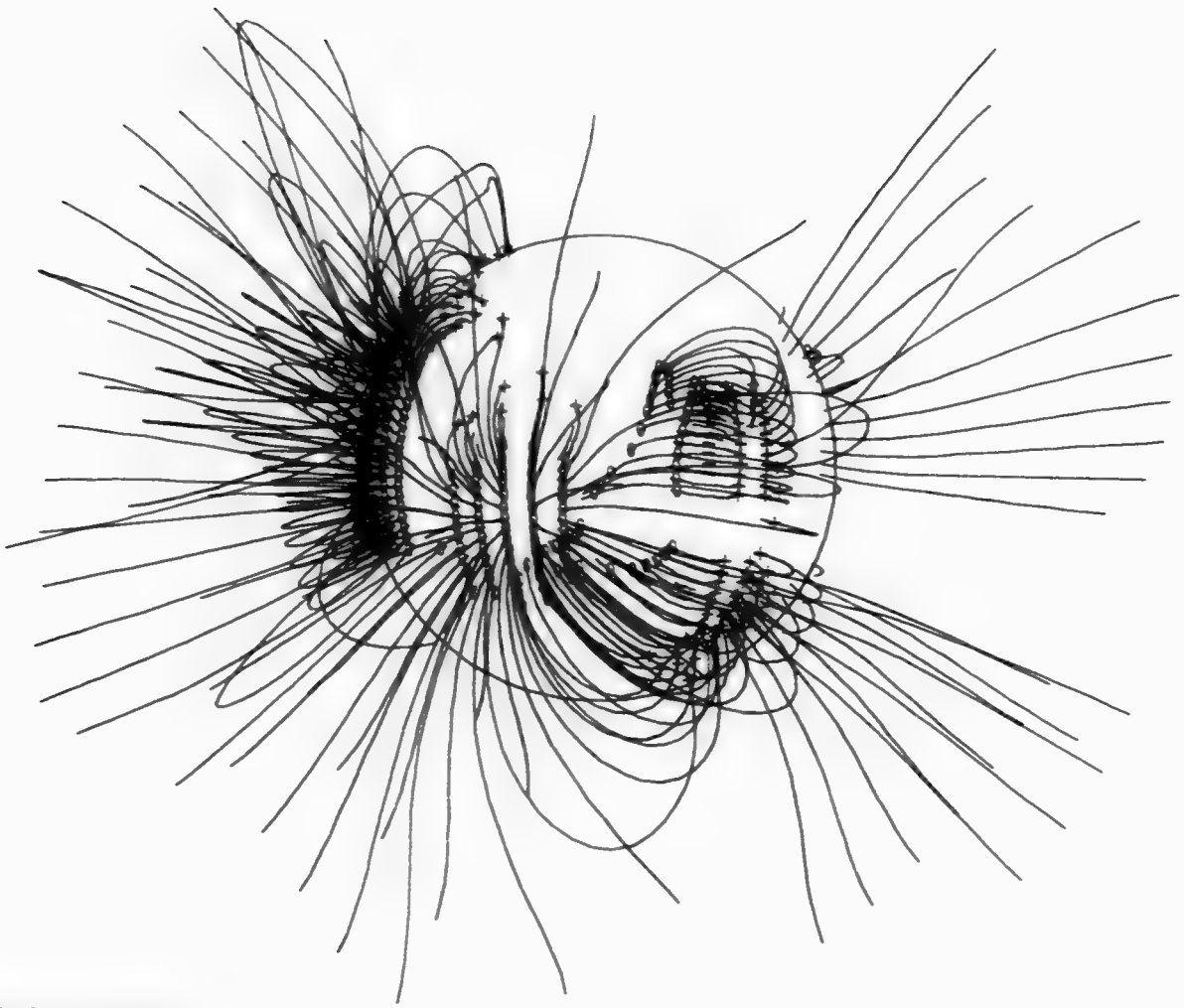
S

ROT. 1560 LONG. 120°

29.9 APR 1971

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N



QUALITY FAIR

POLES DIRECT

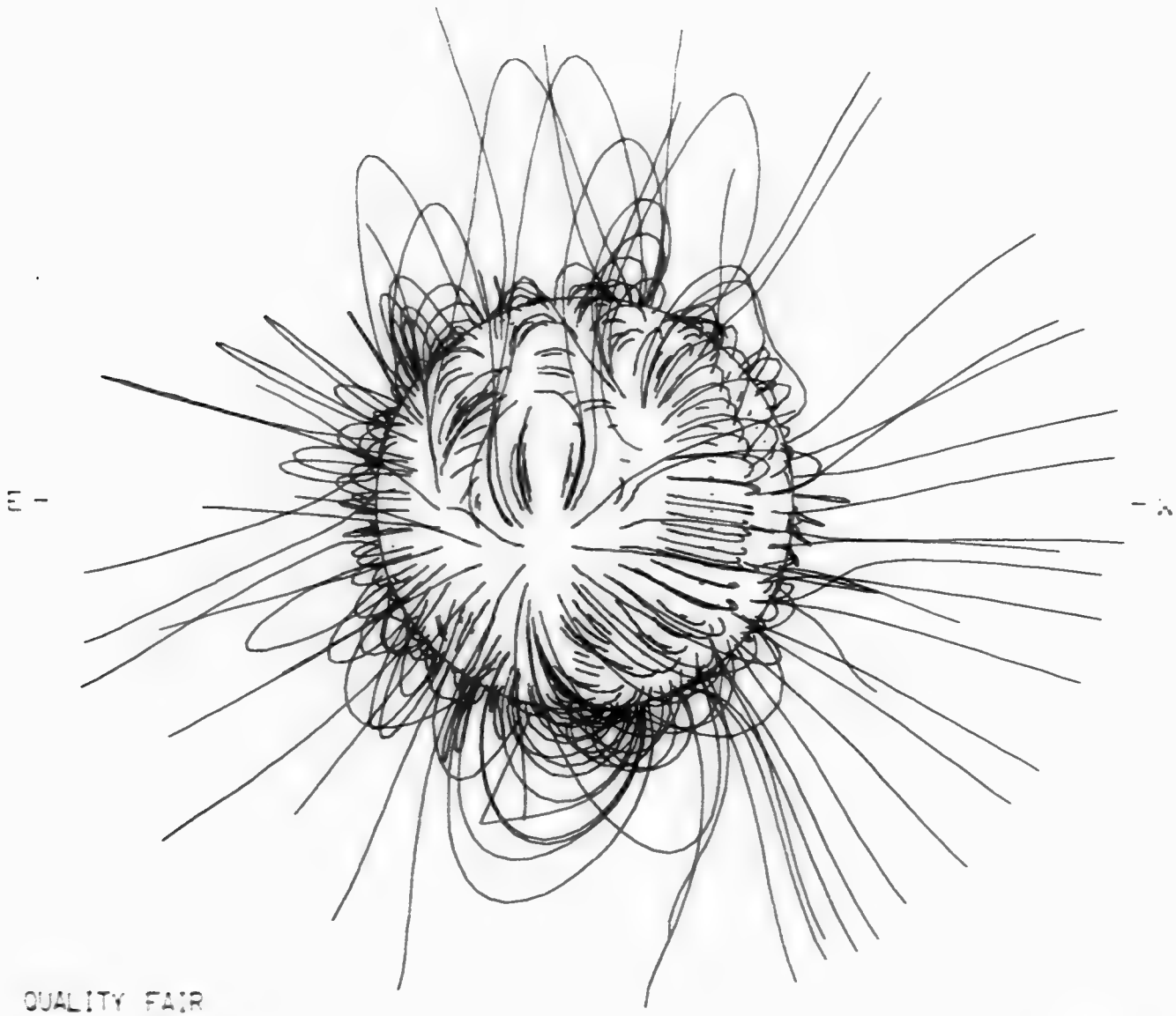
DATA WINDOW 1560.00

S

ROT. 1560 LONG. 120°

29.9 APR 197[illegible]

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



QUALITY FAIR

POLES DIRECT

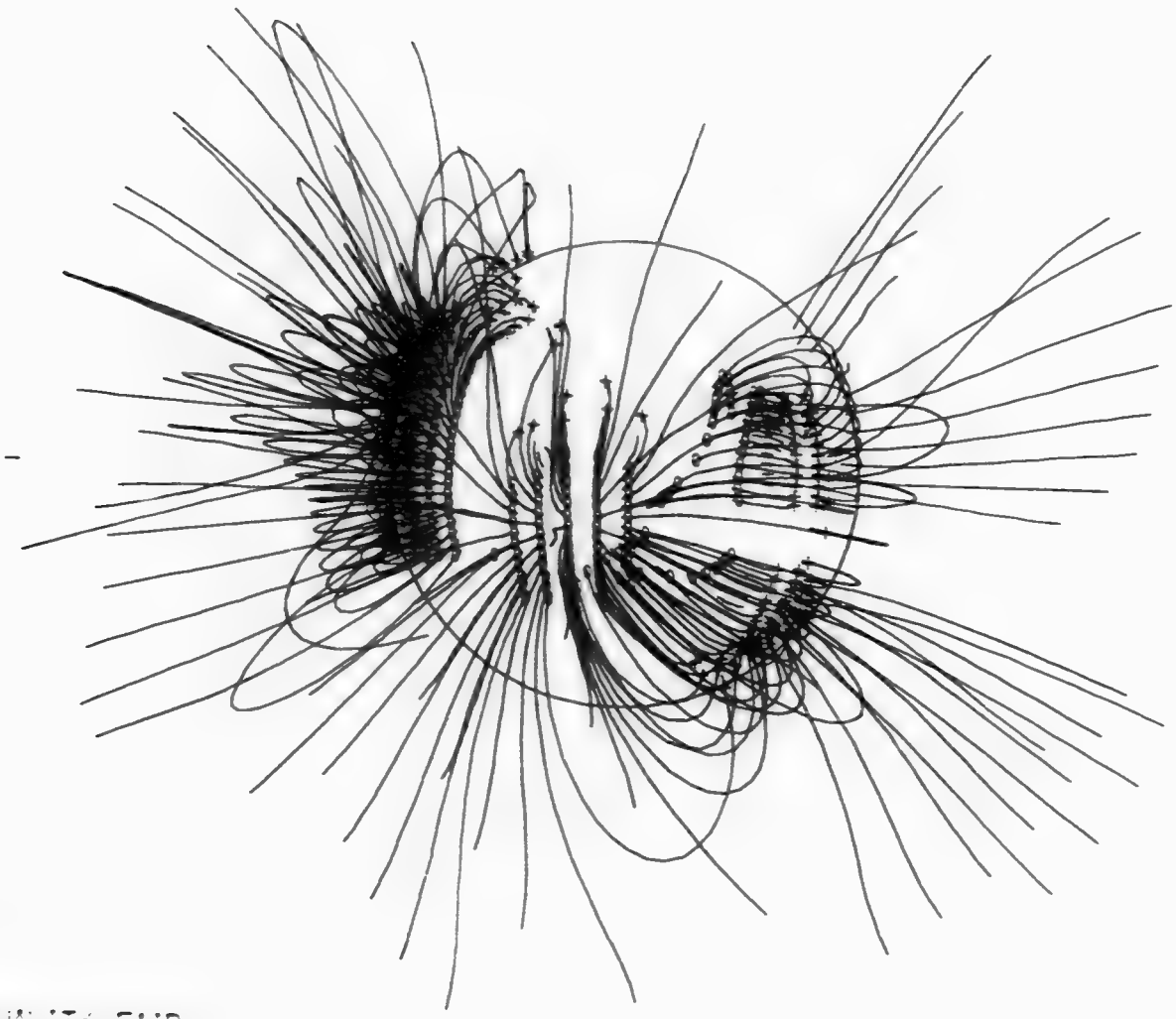
DATA WINDOW 1560.00

ROT. 1560 LONG. 150°

30.6 APR 1970

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N



E

A

QUALITY FAIR

POLES DIRECT

DATA WINDOW 1560.00

S

ROT. 1560 LONG. 150°

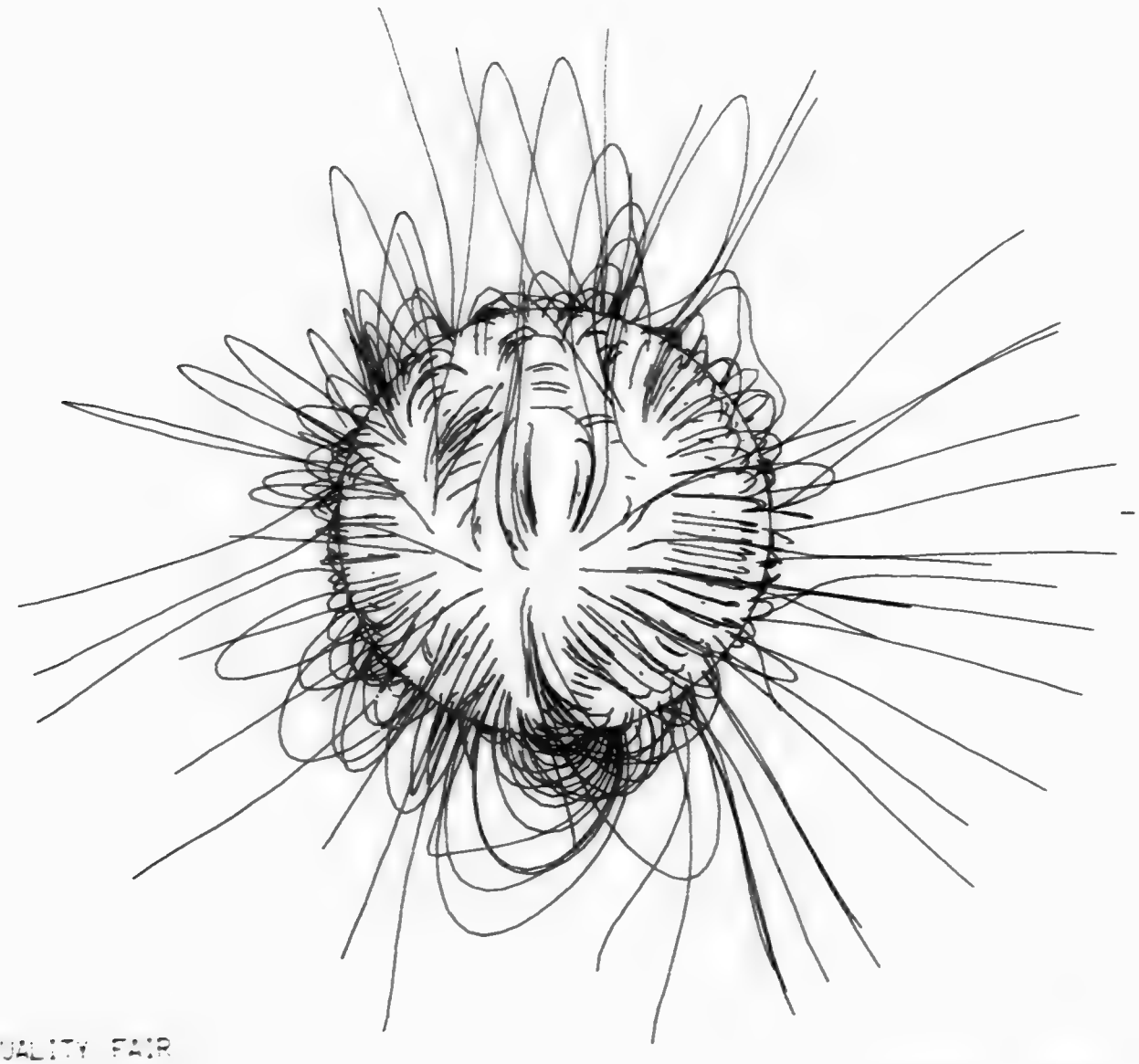
30.6 APR 1970

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N

E

A



S

QUALITY FAIR

POLES DIRECT

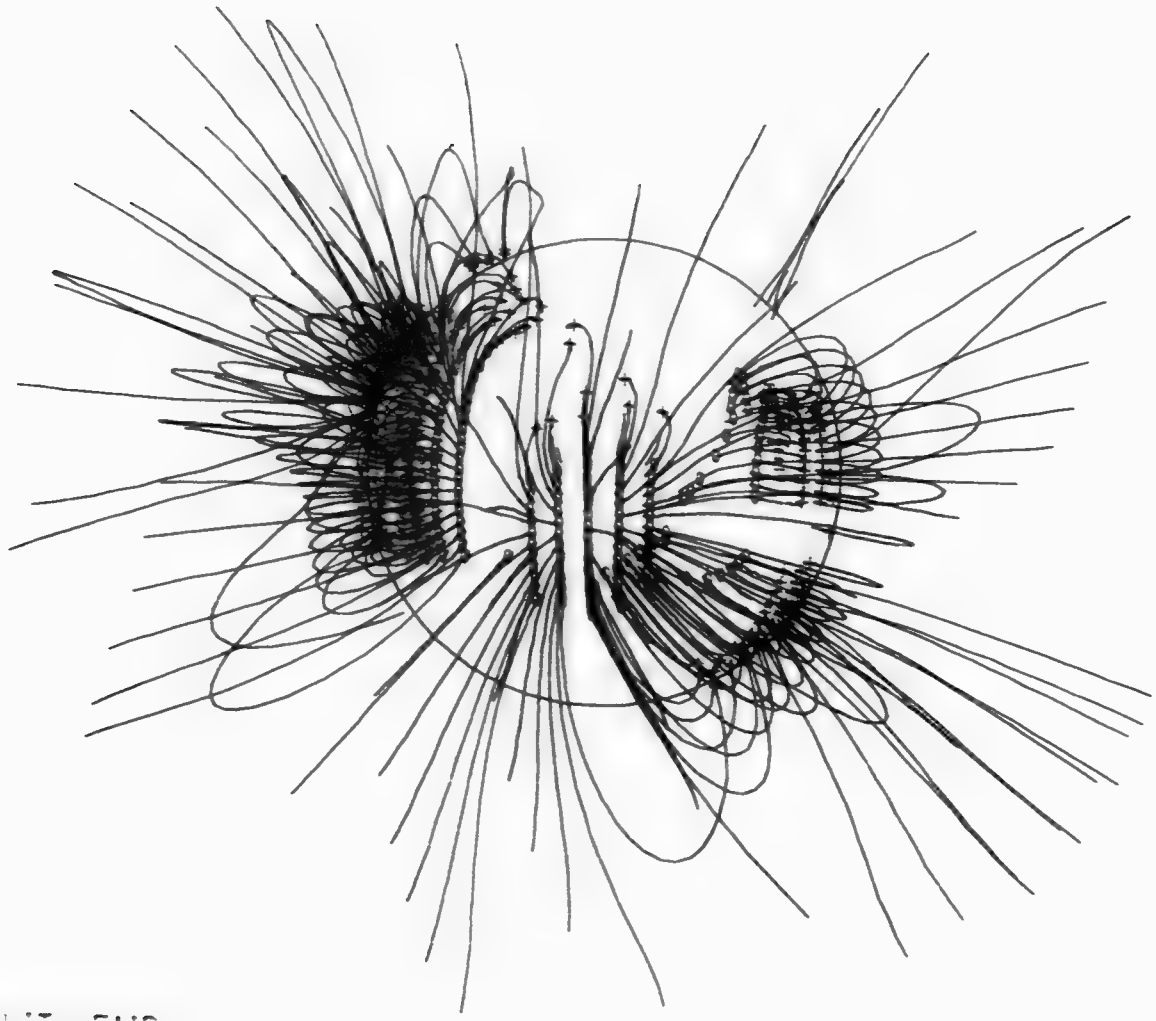
DATA WINDOW 1560.00

ROT. 1560 LONG. 120°

1.2 MAY 1970

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N



E

A

S

QUALITY FAIR

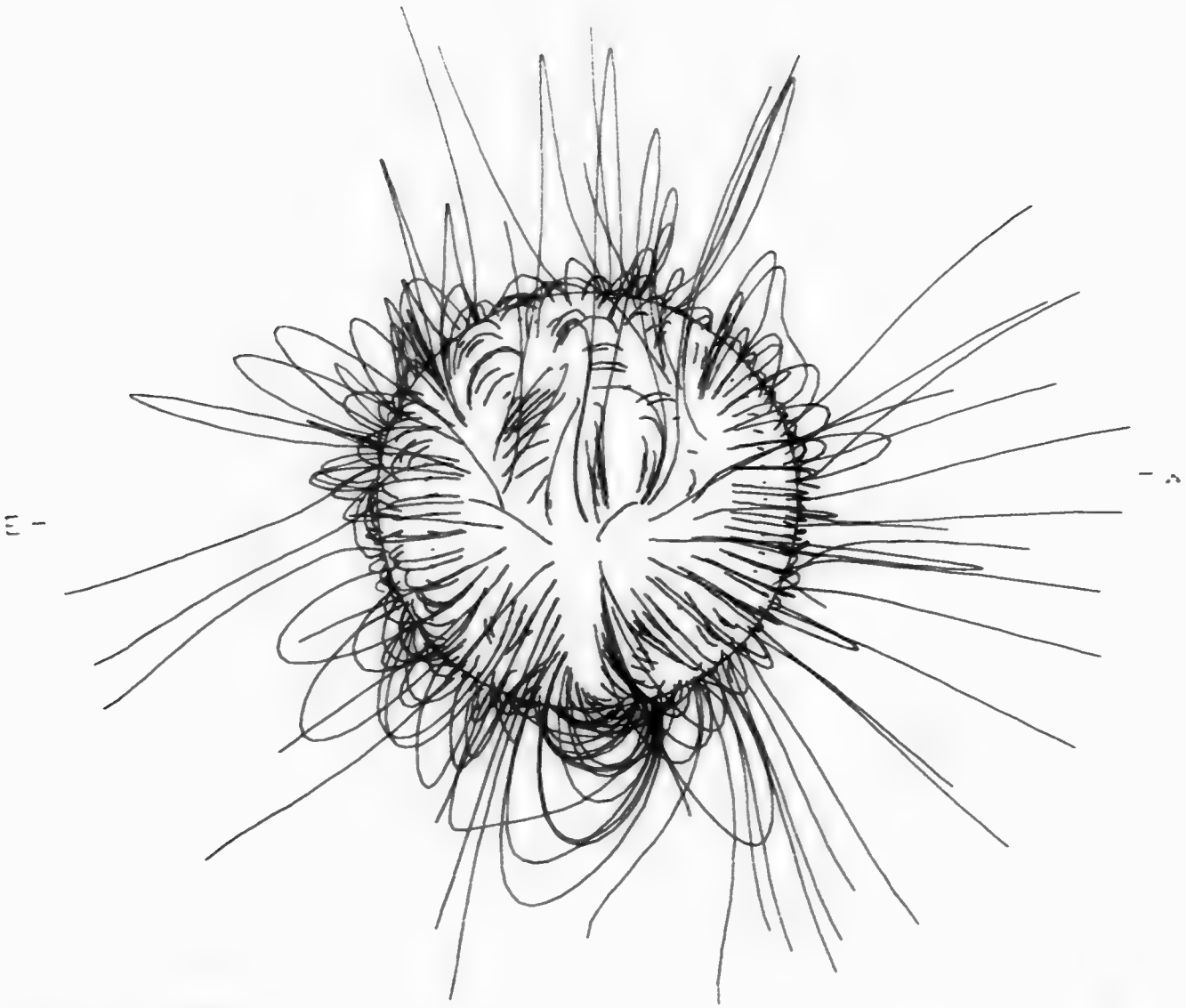
POLES DIRECT

DATA WINDOW 1560.00

ROT. 1560 LONG. 121°

1.4 MAY 1970

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



QUALITY FAIR

POLES DIPOLE

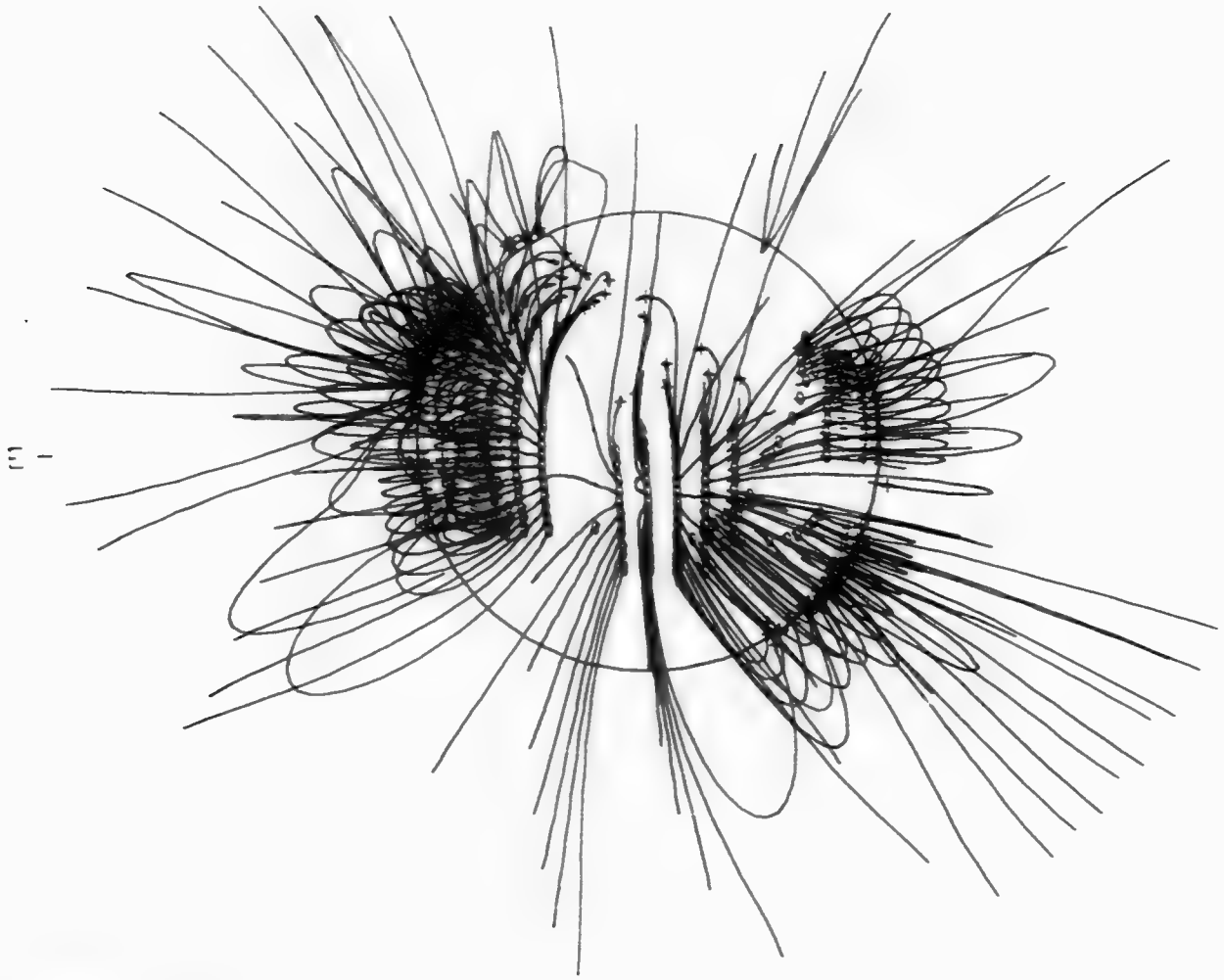
DATA WINDOW 1560.00

ROT. 1561 LONG.

2.1 MAY 197

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N



E

W

S

QUALITY FAIR

POLES DIRECT

DATA WINDOW 1560.00

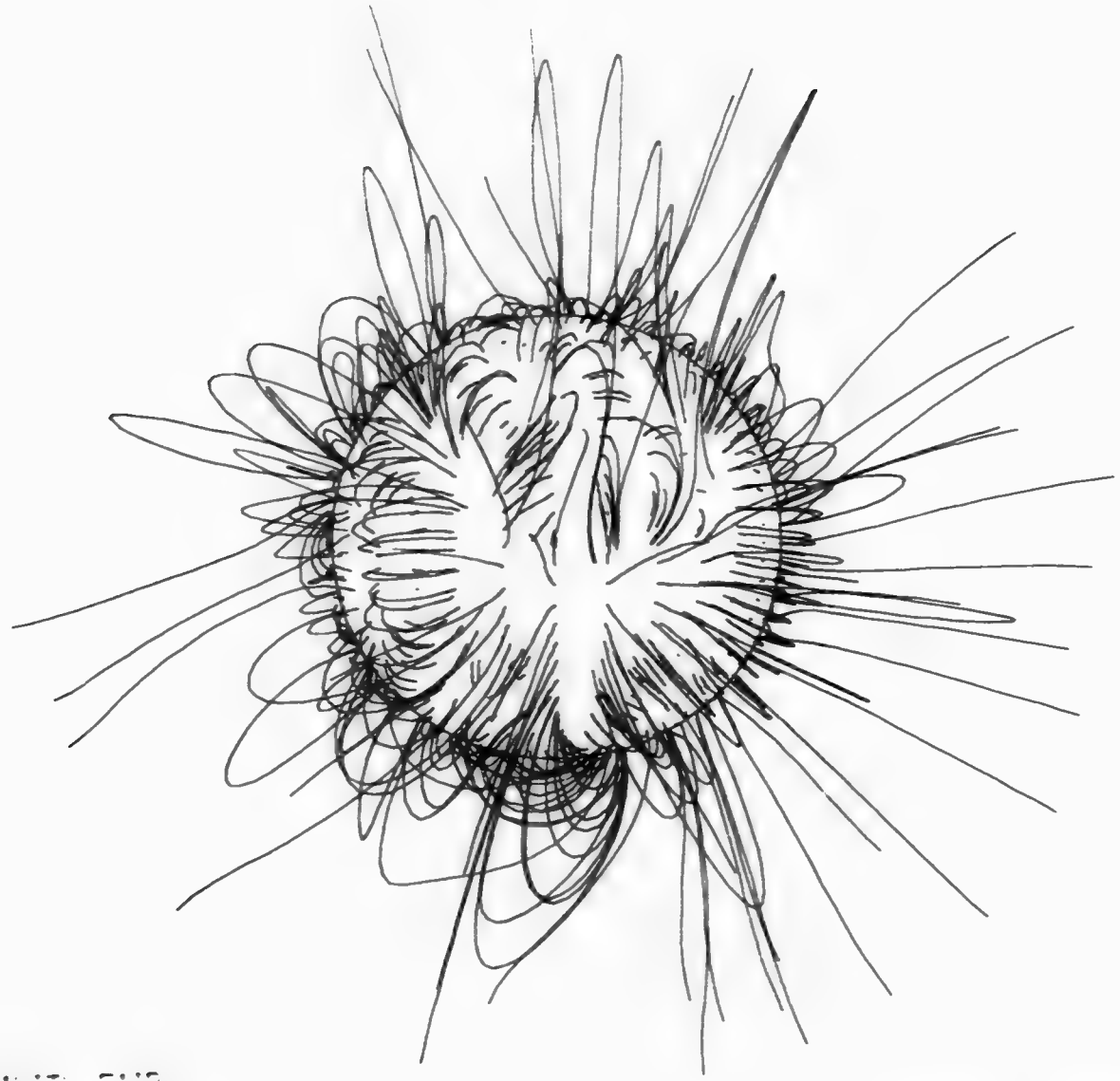
ROT. 1560 LONG. 11°

2.1 MAY 1970

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N

E -



S

QUALITY FAIR

POLES DIRECT

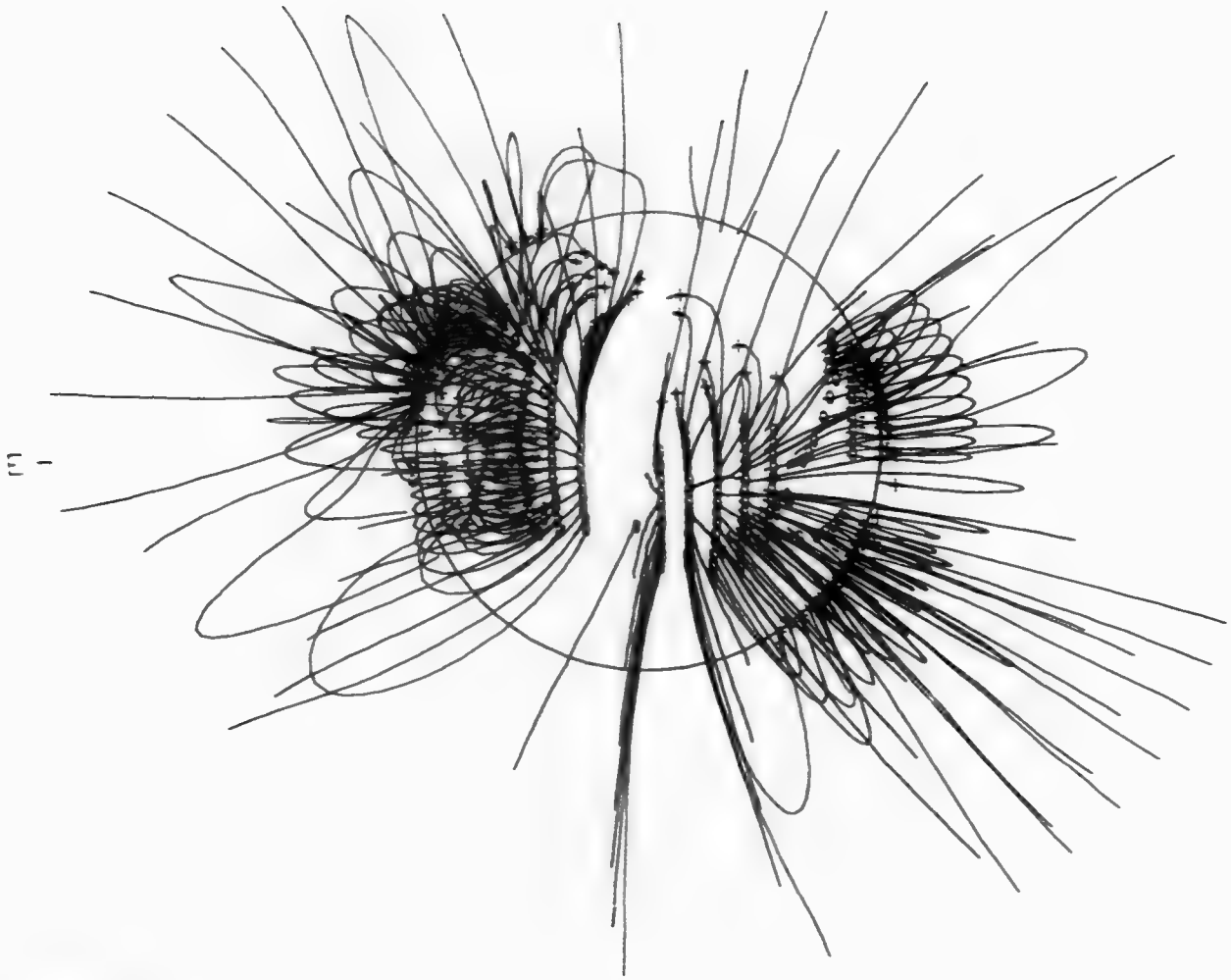
DATA WINDOW 1560.00

ROT. 1560 LONG. 1[illegible]°

2.9 MHz 197[illegible]

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N



E

A

S

QUALITY FAIR

POLES DIRECT

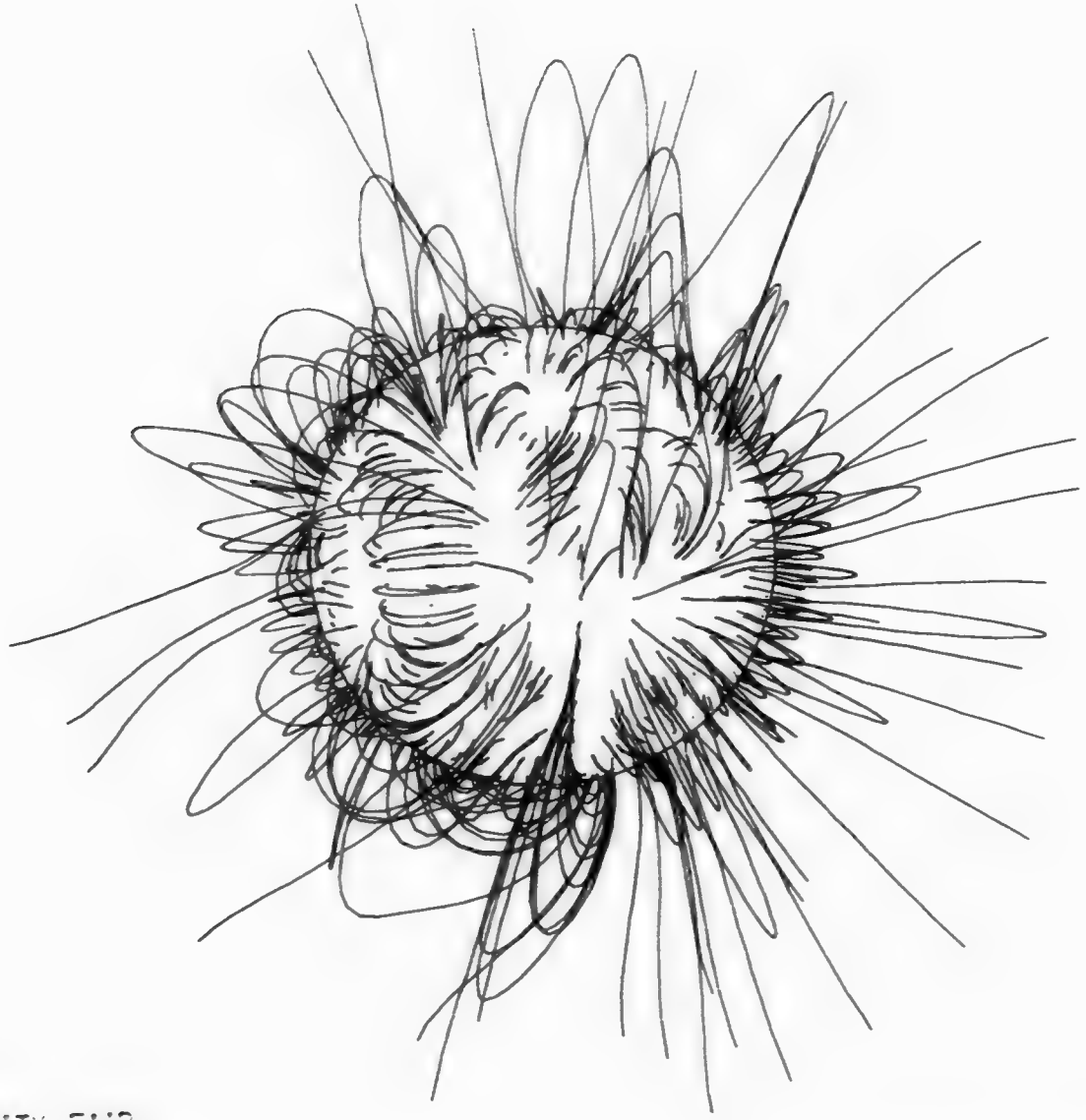
DATA WINDOW 1560.00

ROT. 1560 LONG. 1[illegible]°

2.9 MA[illegible] 197[illegible]

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N



E

QUALITY FAIR

POLES DIRECT

DATA WINDOW 1560.00

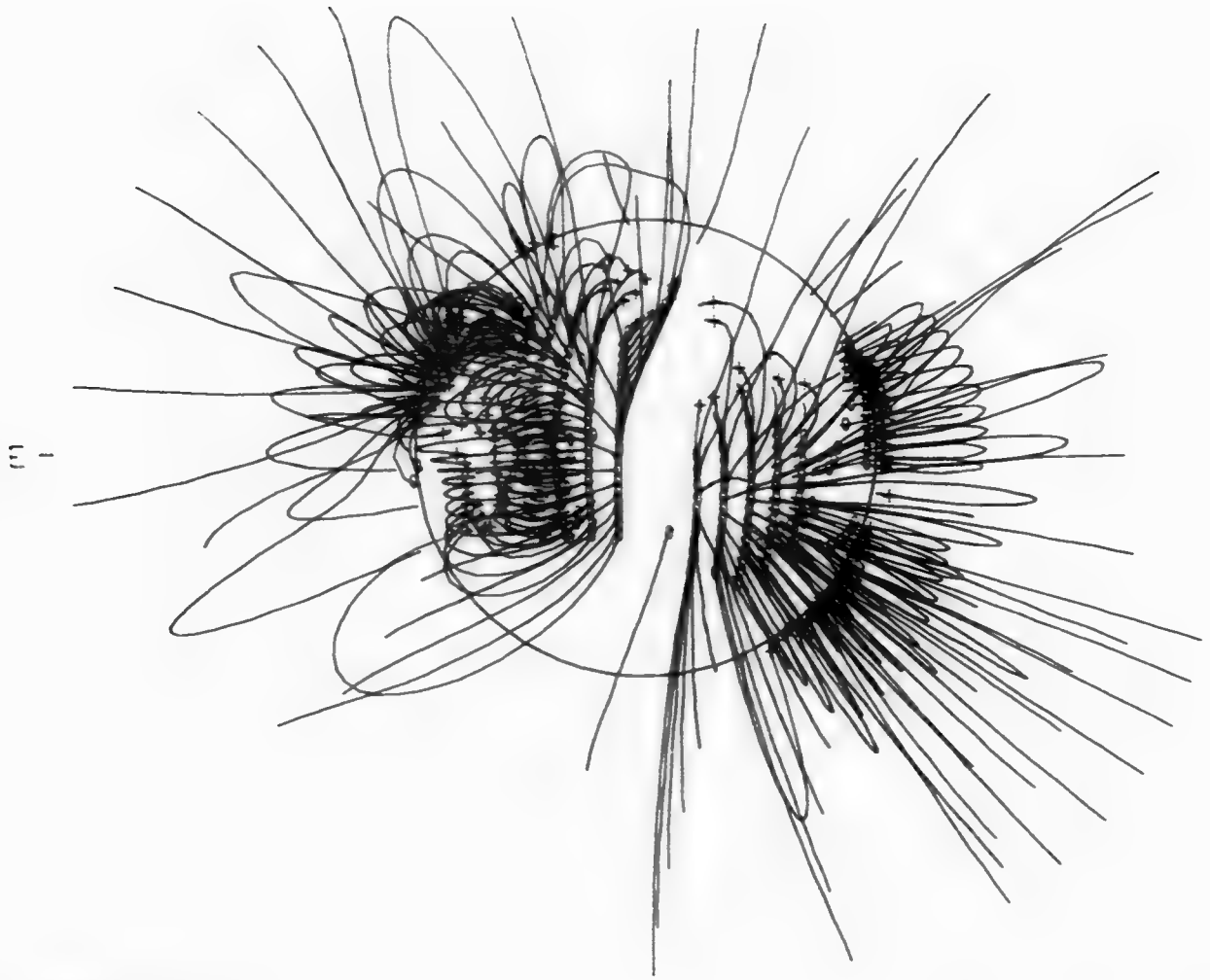
S

ROT. 1560 LONG. 90°

5.6 MHz 1970

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N



E

A

QUALITY FAIR

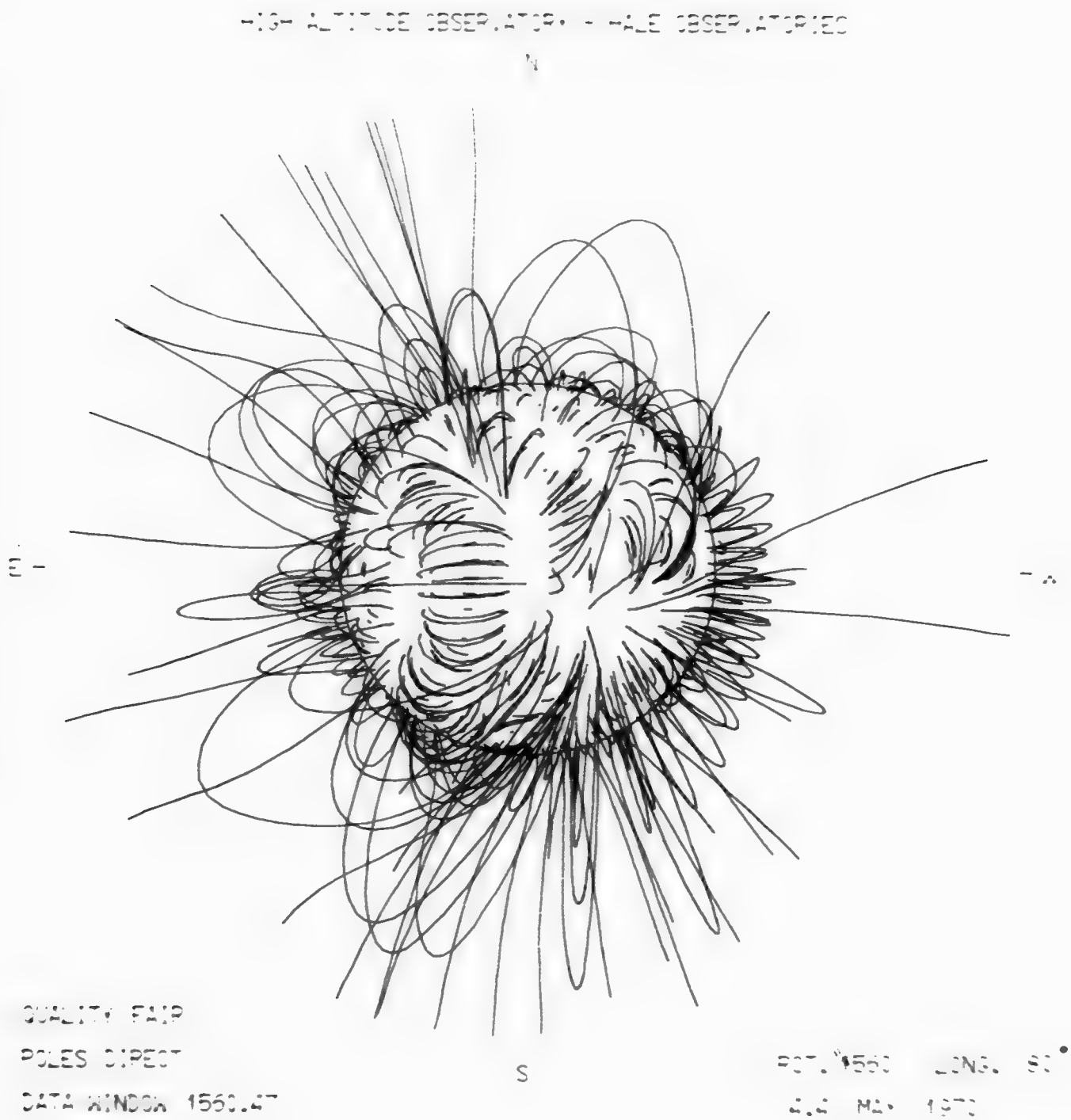
POLES DIRECT

DATA WINDOW 1560.00

S

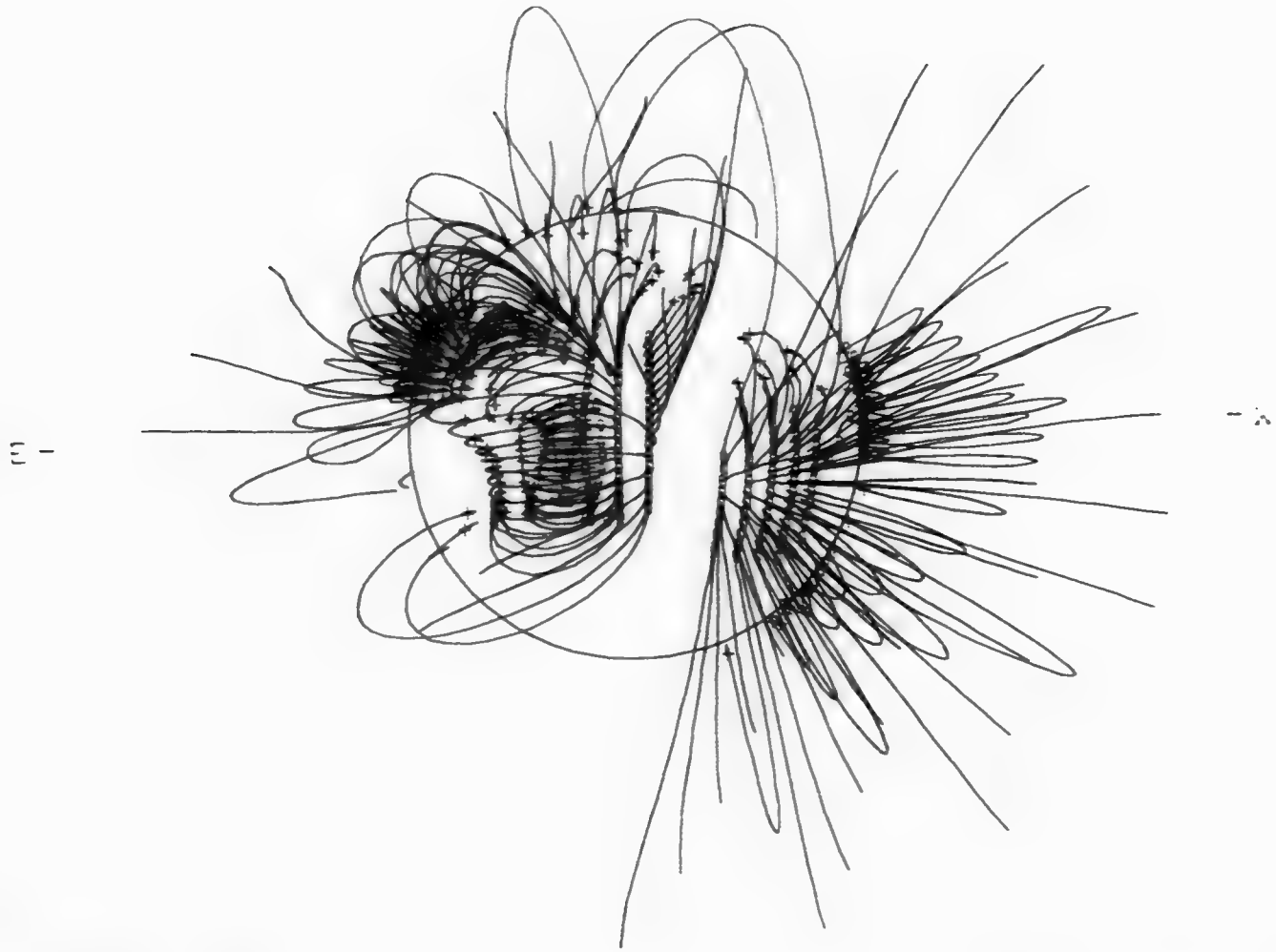
ROT. 1560 LONG. 90°

3.6 MHz 1970


HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES
N
E
S
QUALITY FAIR
POLES DIRECT
DATA WINDOW 1560.4T
LONG. 81°
2.2 MAY 197

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N



QUALITY FAIR

POLES DIRECT

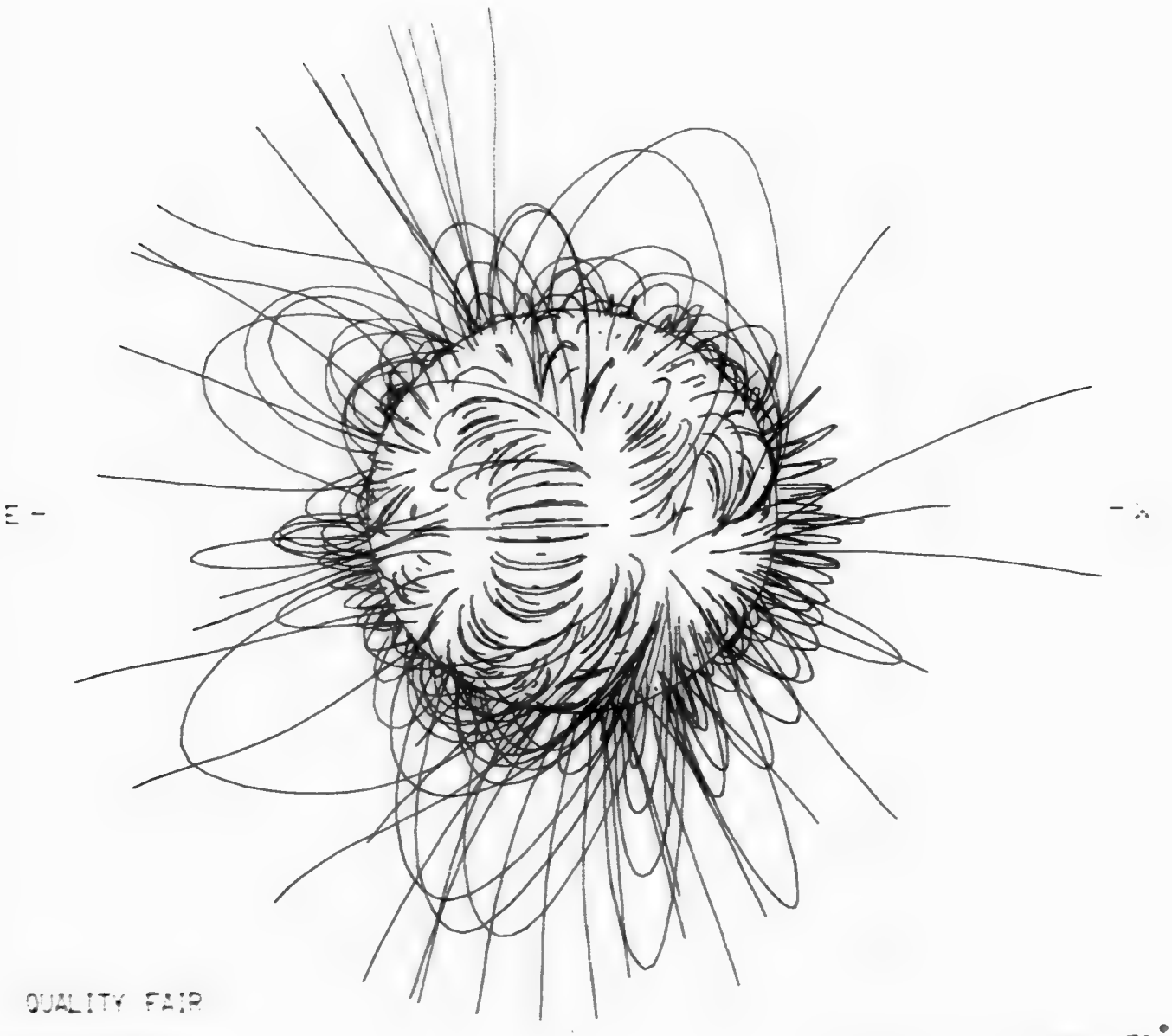
DATA WINDOW 1560.47

S

ROT. 1560 LONG. 91°

A.A HR. 1970

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



QUALITY FAIR

POLES DIRECT

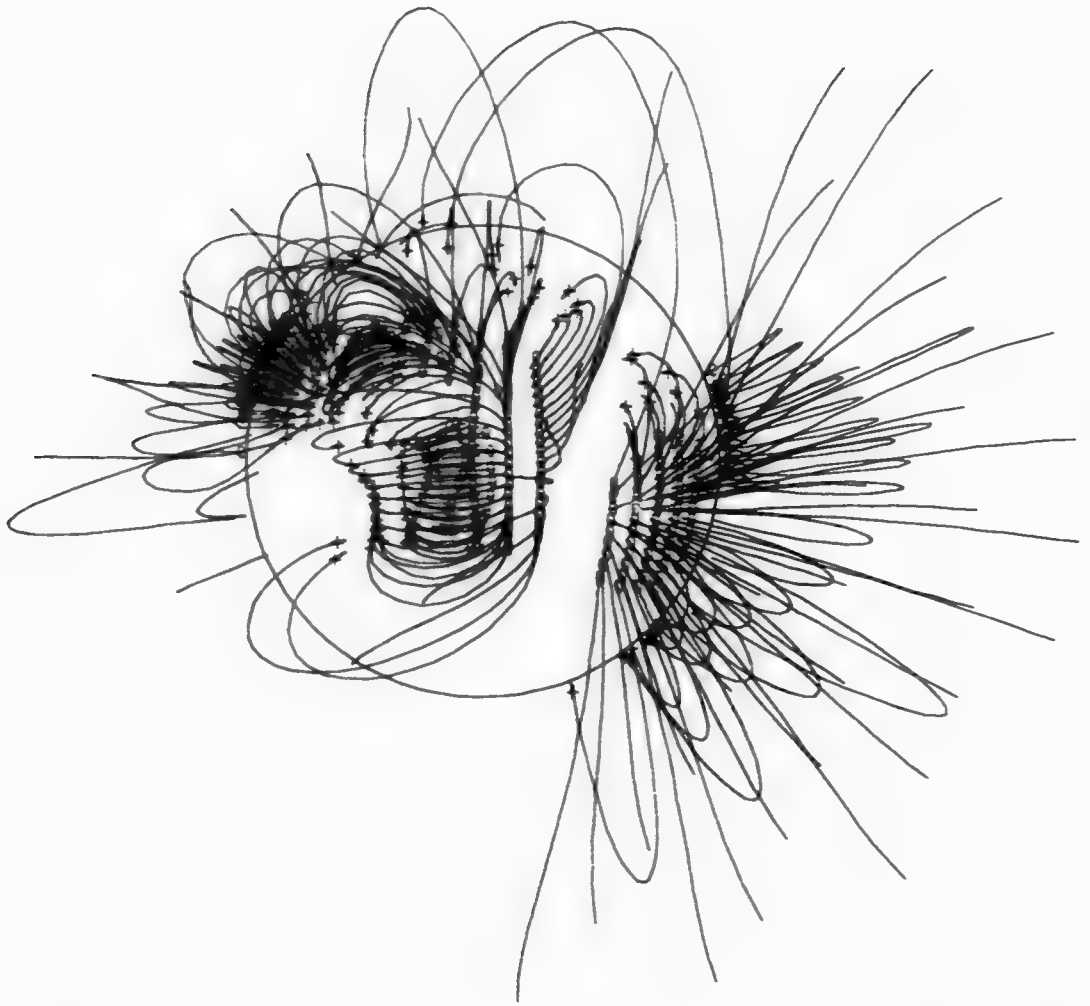
DATA WINDOW 1560.4T

ROT. 1560 LONG. 73°

5.1 MAY 1973

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N



E

A

QUALITY FAIR

POLES DIRECT

DATA WINDOW 1560.47

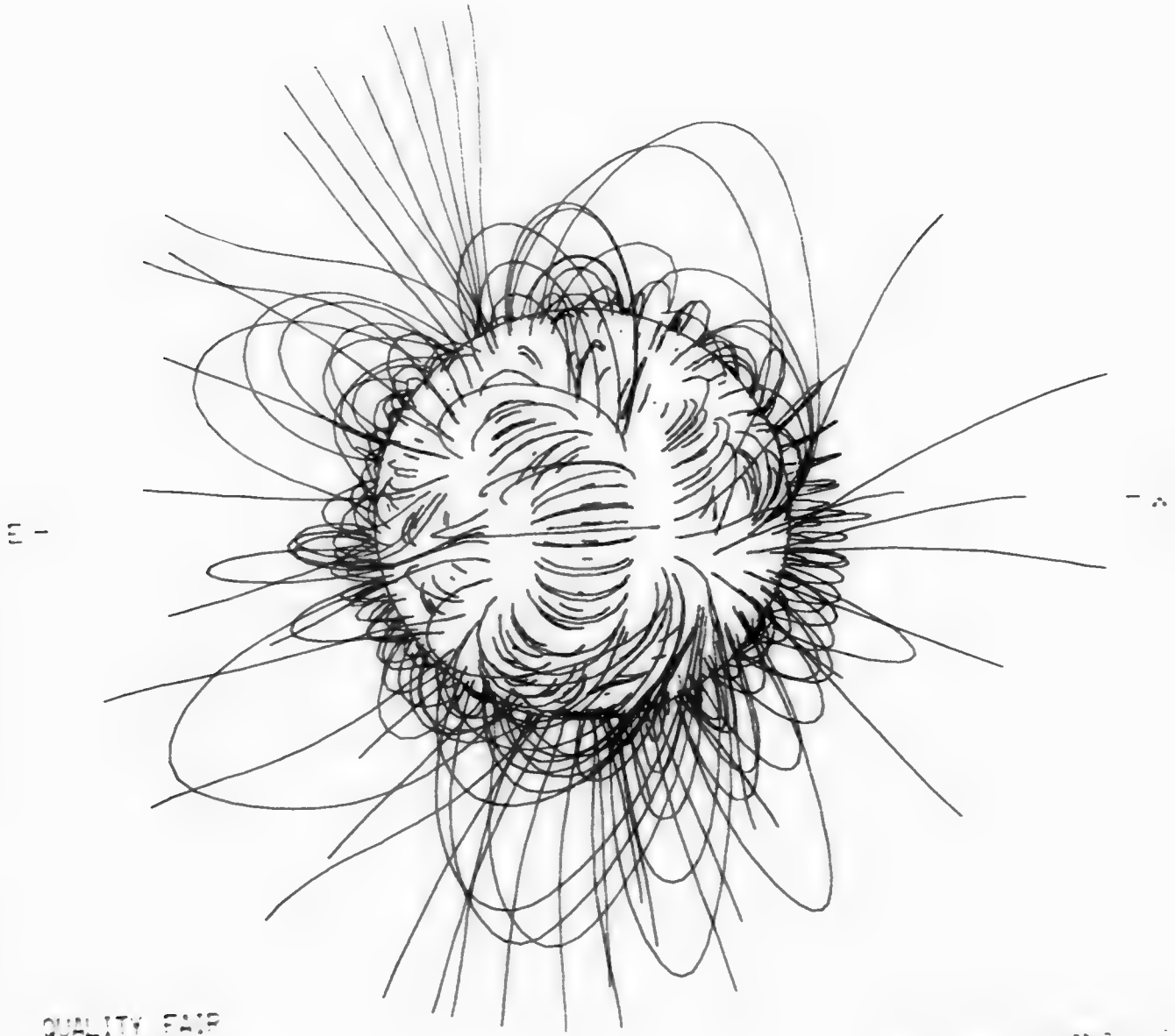
S

ROT. 1560 LONG. 72°

5.1 MAY 1970

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N



E

QUALITY FAIR

POLES DIRECT

DATA WINDOW 1560.4T

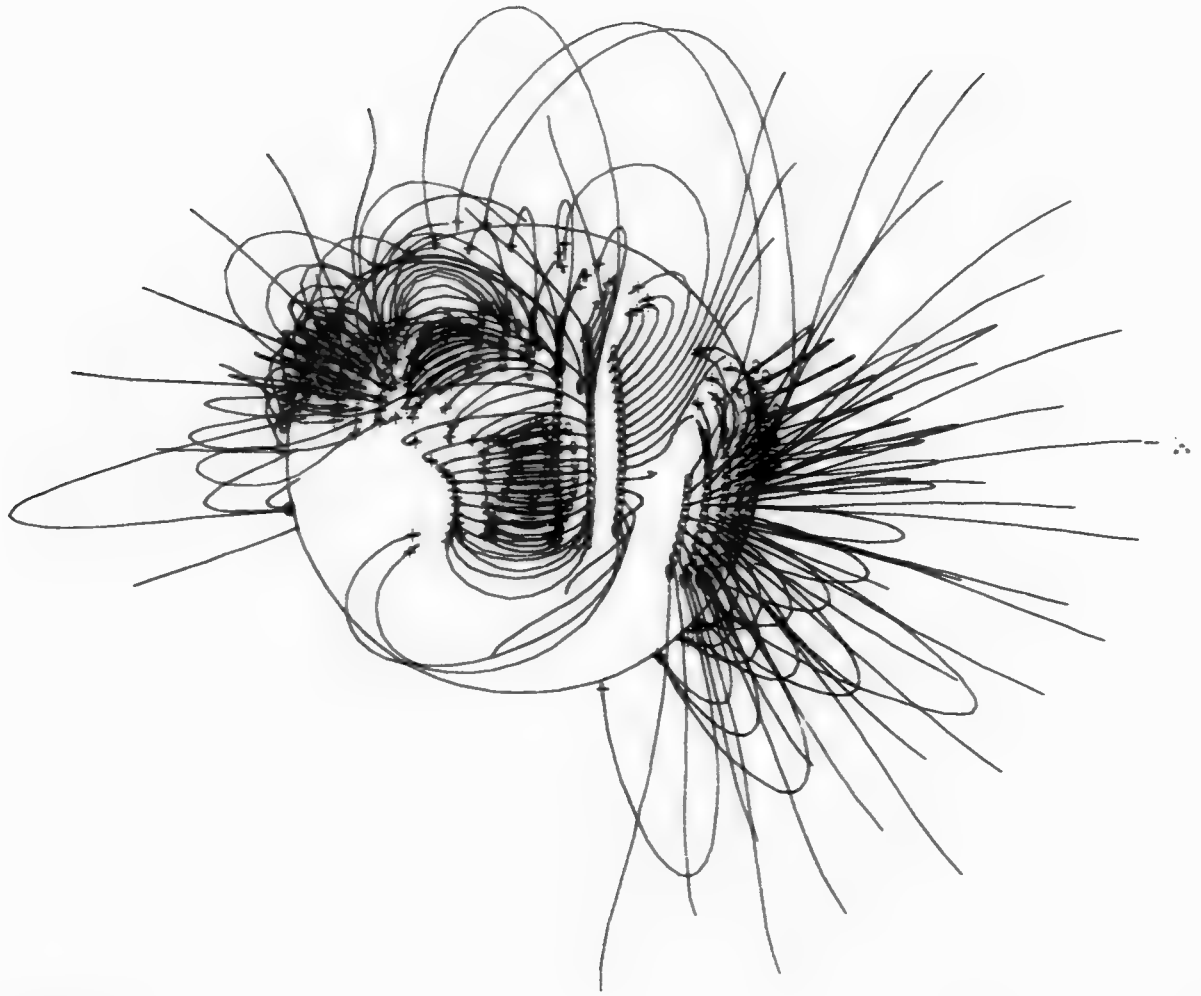
S

ROT. 1560 LONG.

5.9 MA. 197

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N



E

QUALITY FAIR

POLES DIRECT

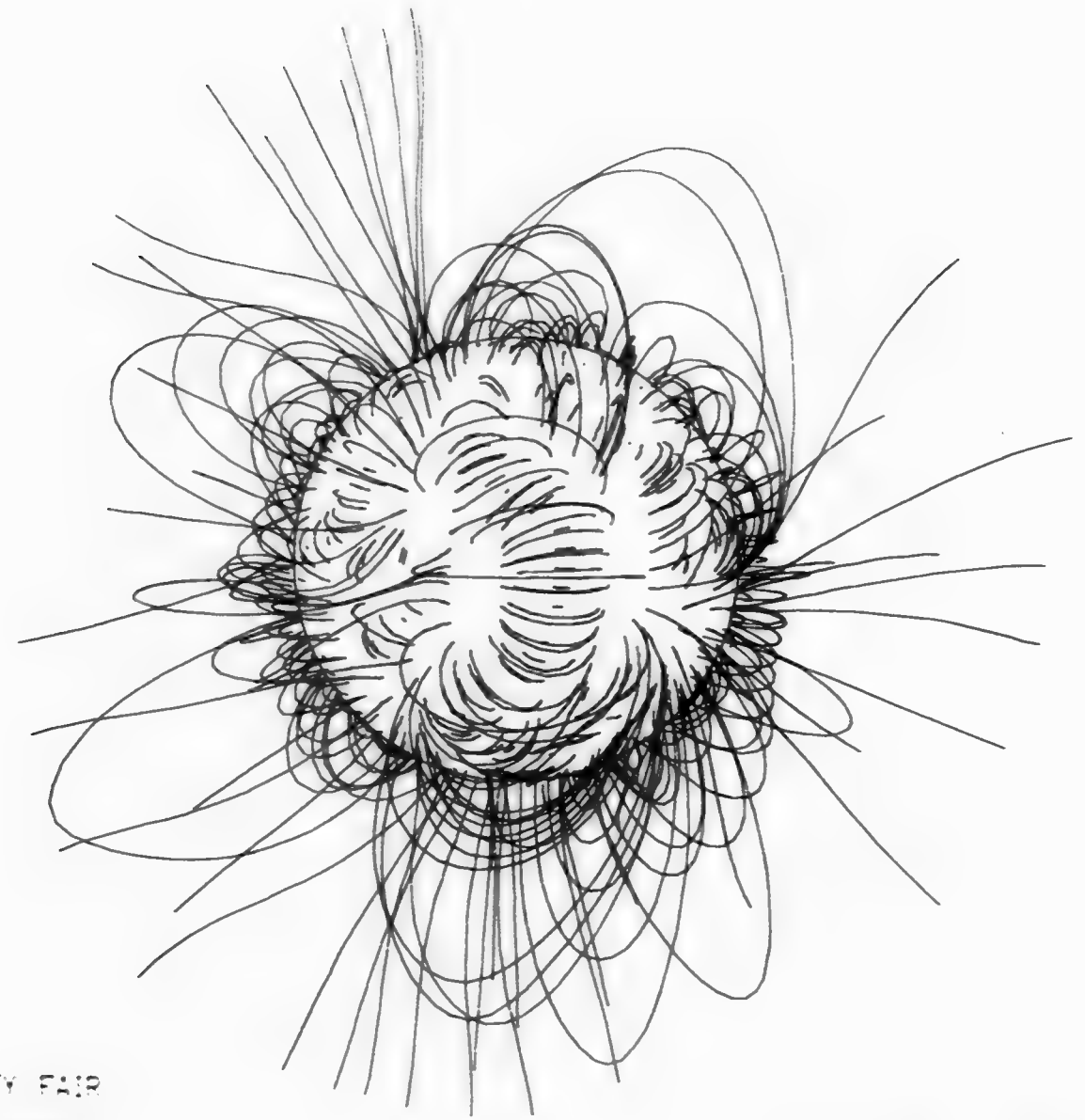
DATA WINDOW 1560.47

S

ROT. 1560 LONG. 0°

5.0 MAY 1971

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

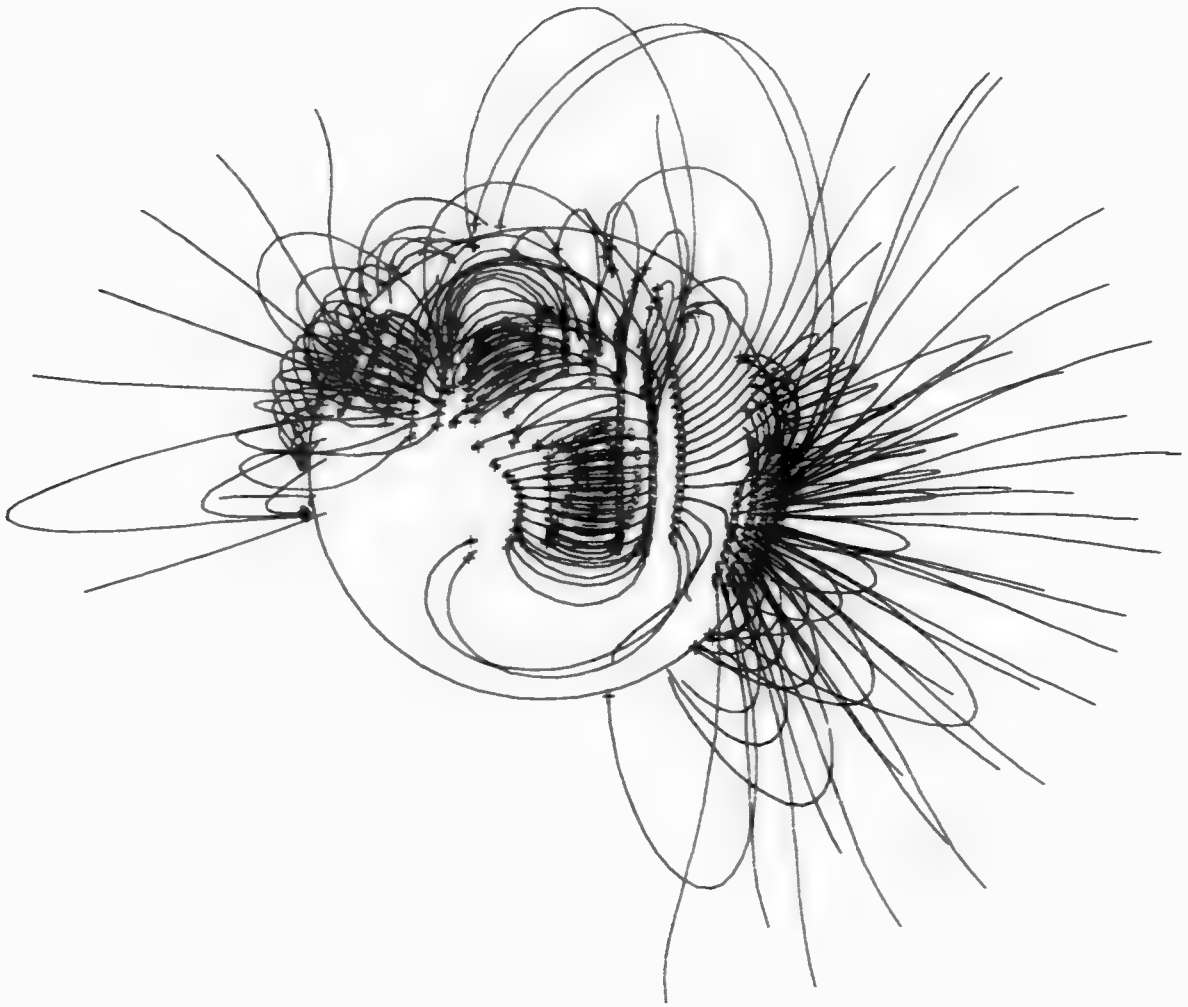


QUALITY FAIR
POLES DIRECT
DATA WINDOW 1560.47

ROT. 1560 LONG. 51°
6.7 MAY 1970

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N



E

W

S

QUALITY FAIR

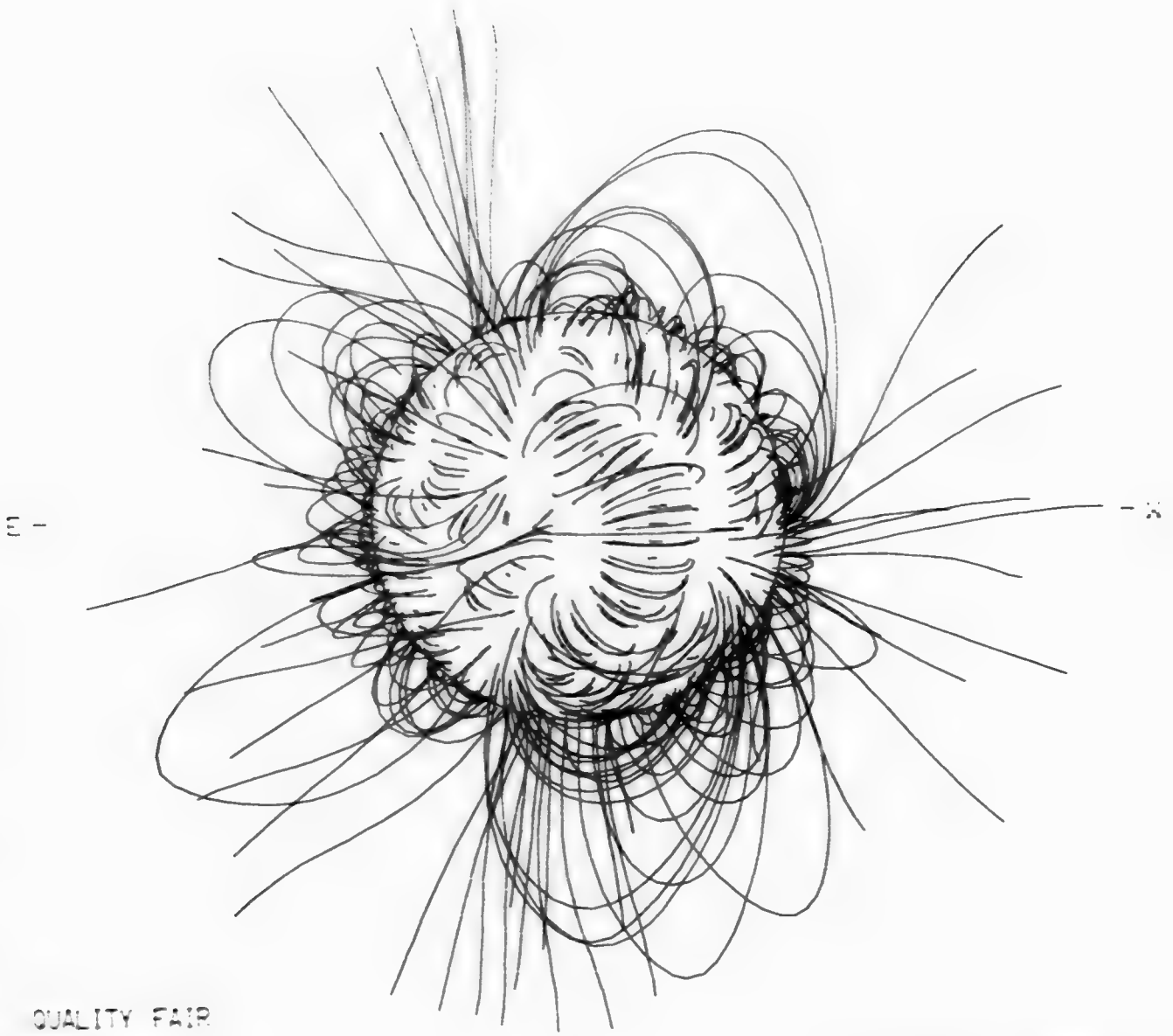
POLES DIRECT

DATA WINDOW 1560.47

ROT. 1560 LONG. 5[illegible]°

[illegible].7 MAY 197[illegible]

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



QUALITY FAIR

POLES DIRECT

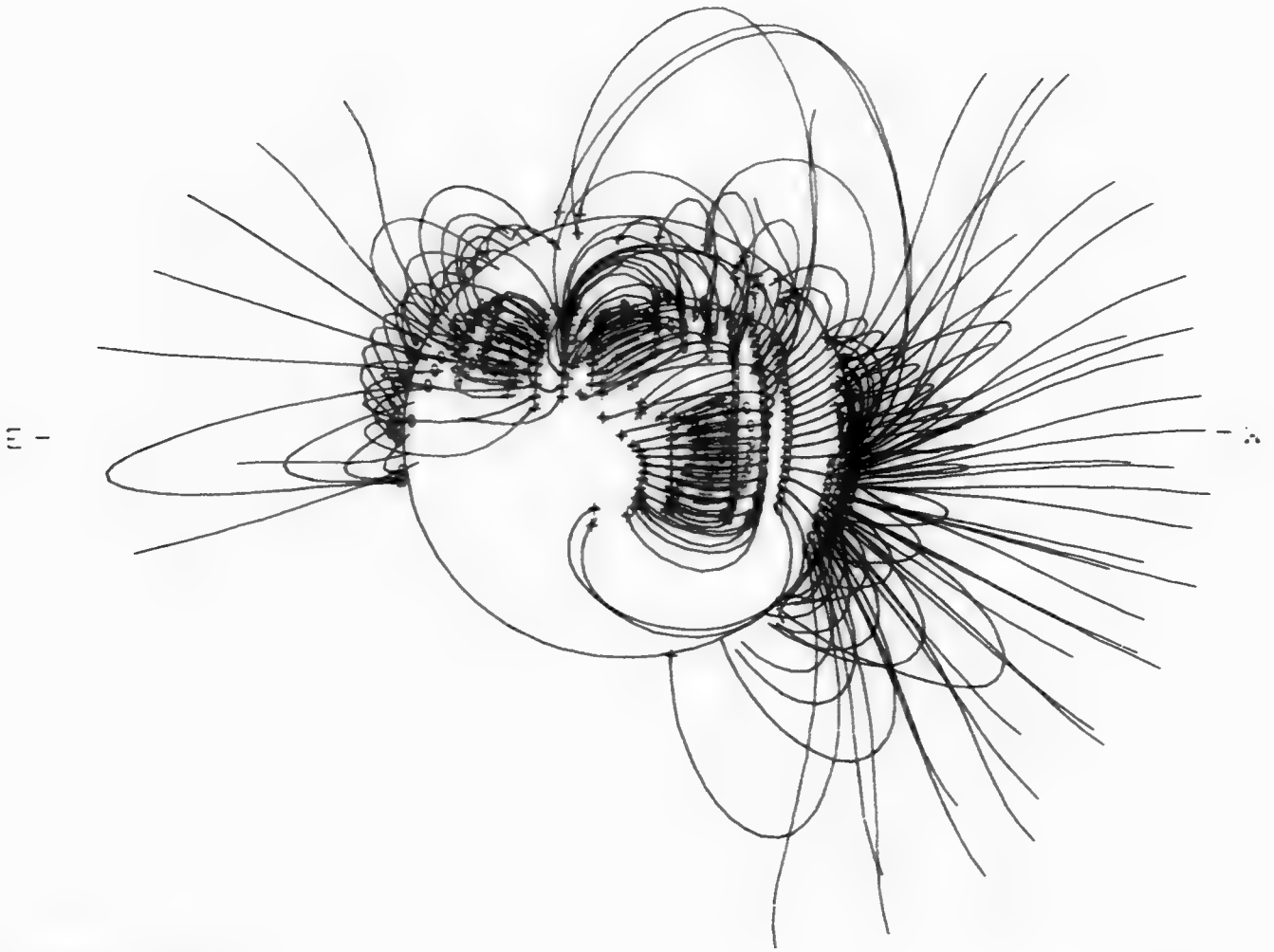
DATA WINDOW 1560.47

ROT. 1560 LONG. 22°

7.2 MAY 1970

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N



QUALITY FAIR

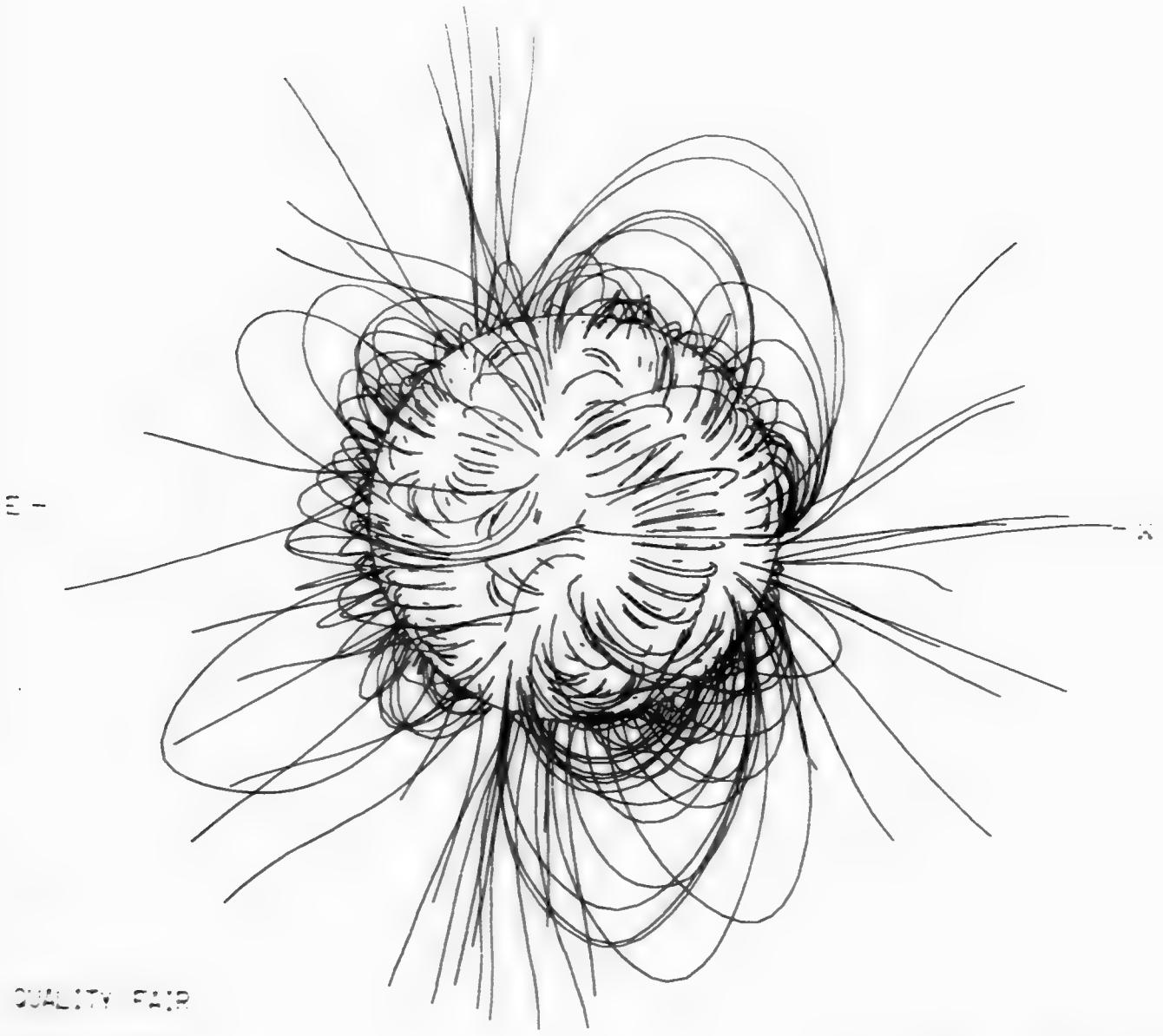
POLES DIRECT

DATA WINDOW 1560.47

S

ROT. 1560 LONG. 21°

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



QUALITY FAIR

POLES DIRECT

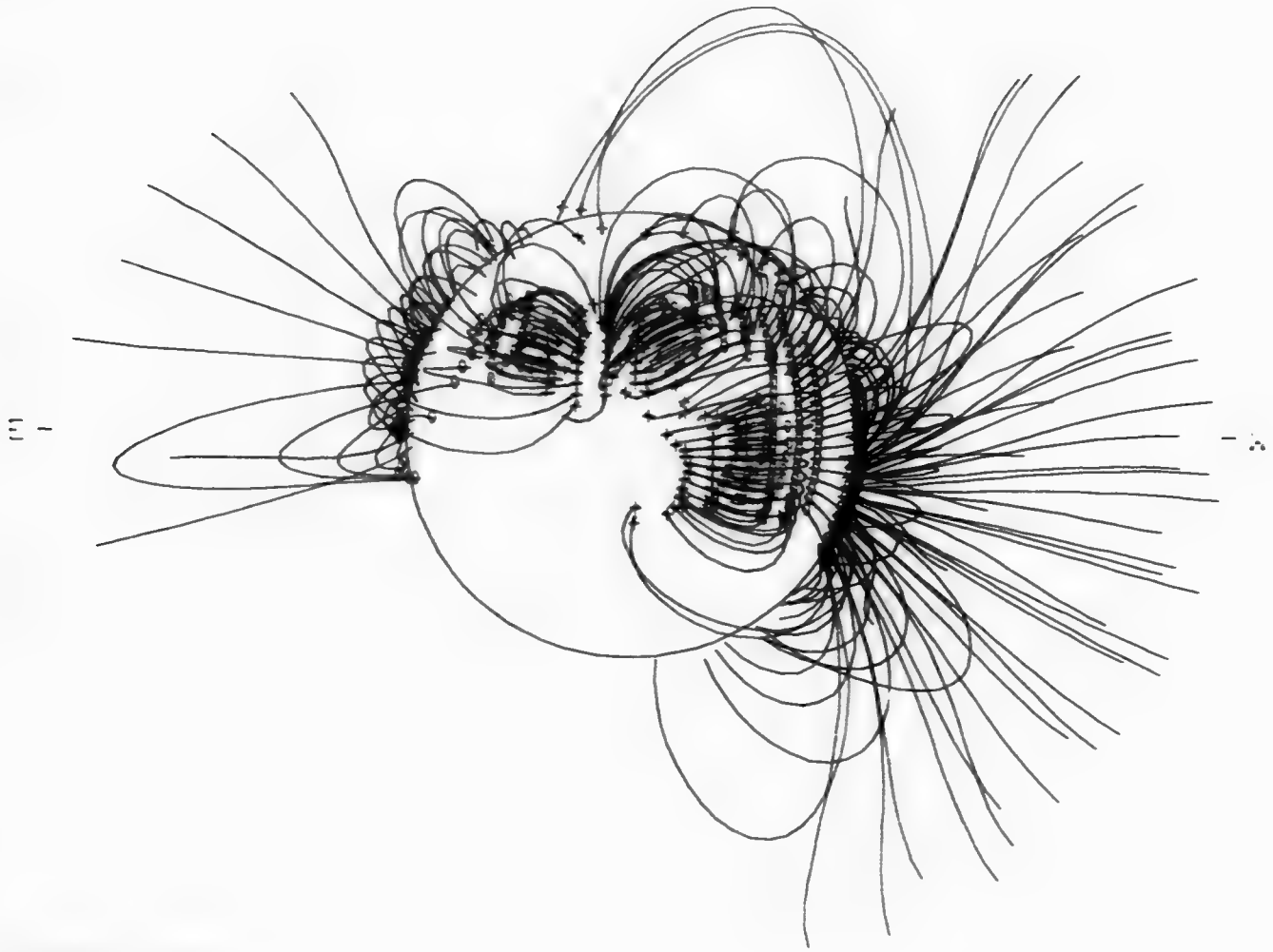
DATA WINDOW 1560.47

ROT. 1560 LONG. 5[illegible]°

8.2 MAY 197[illegible]

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N



E

A

S

QUALITY FAIR

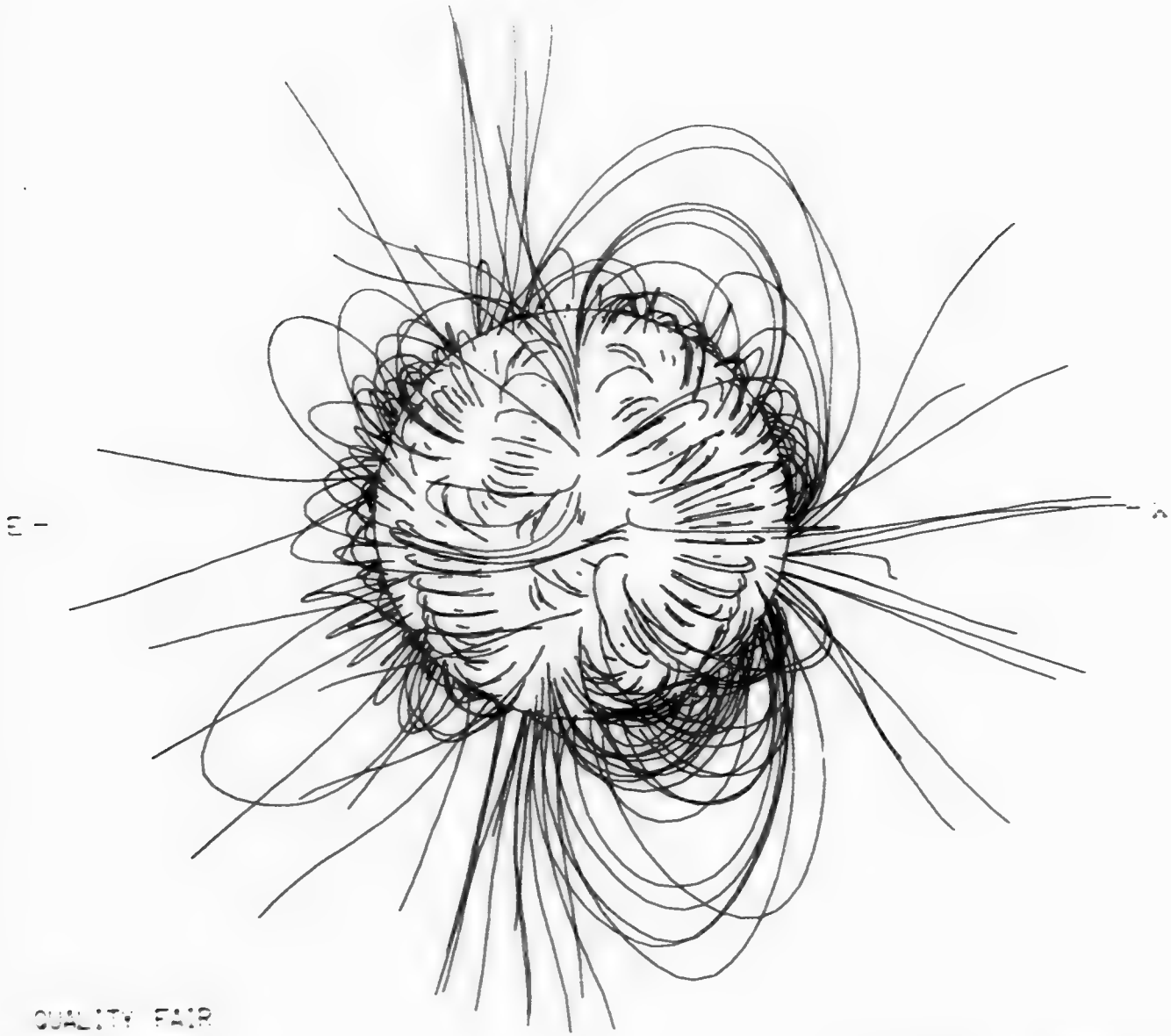
POLES DIRECT

DATA WINDOW 1560.47

ROT. 1560 LONG. 51°

8.2 MAY 1971

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



QUALITY FAIR

POLES DIRECT

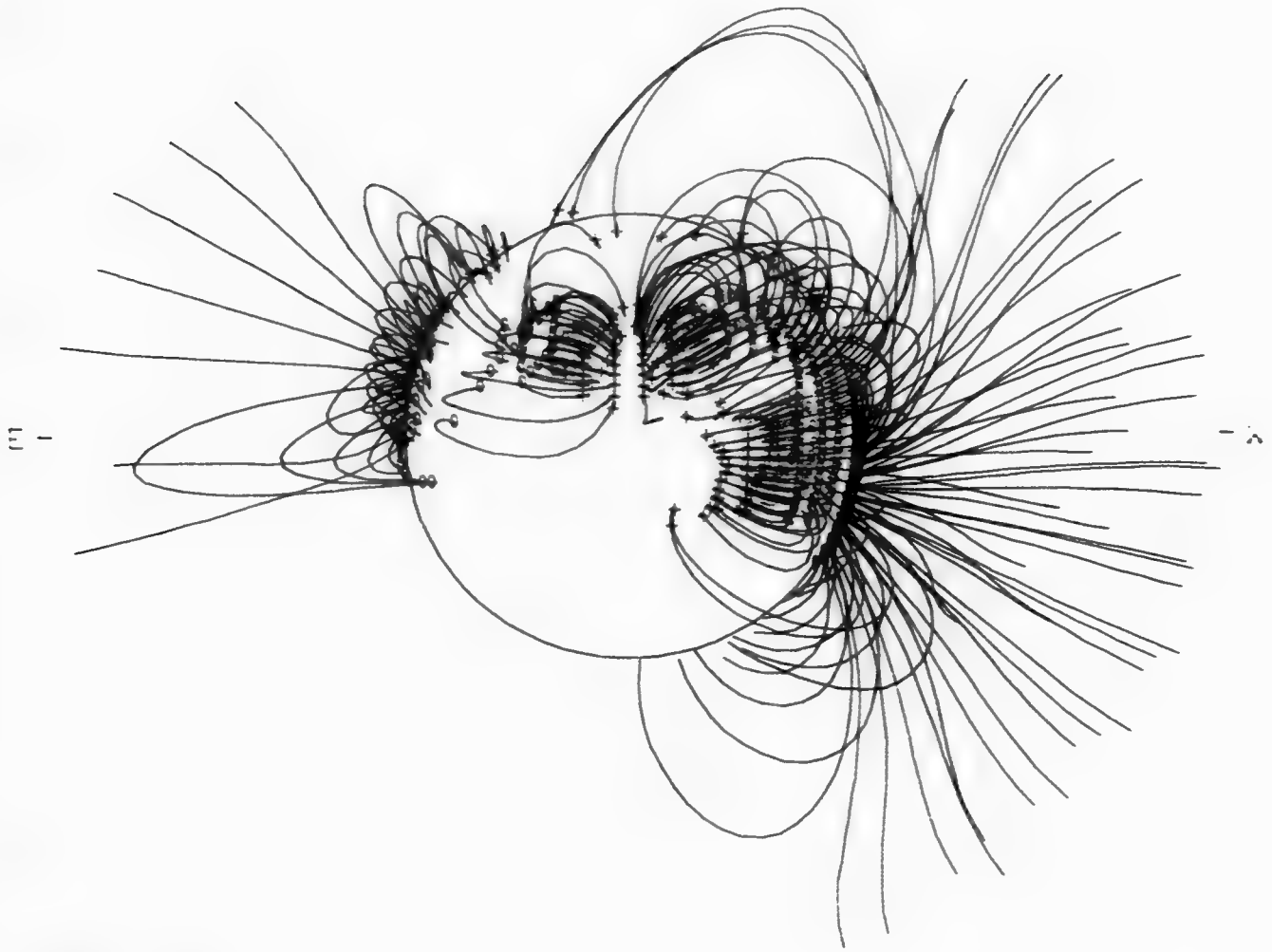
DATA WINDOW 1560.4T

ROT. 1560 LONG. 2[illegible]°

S.S MAY 197[illegible]

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N



E

W

S

QUALITY FAIR

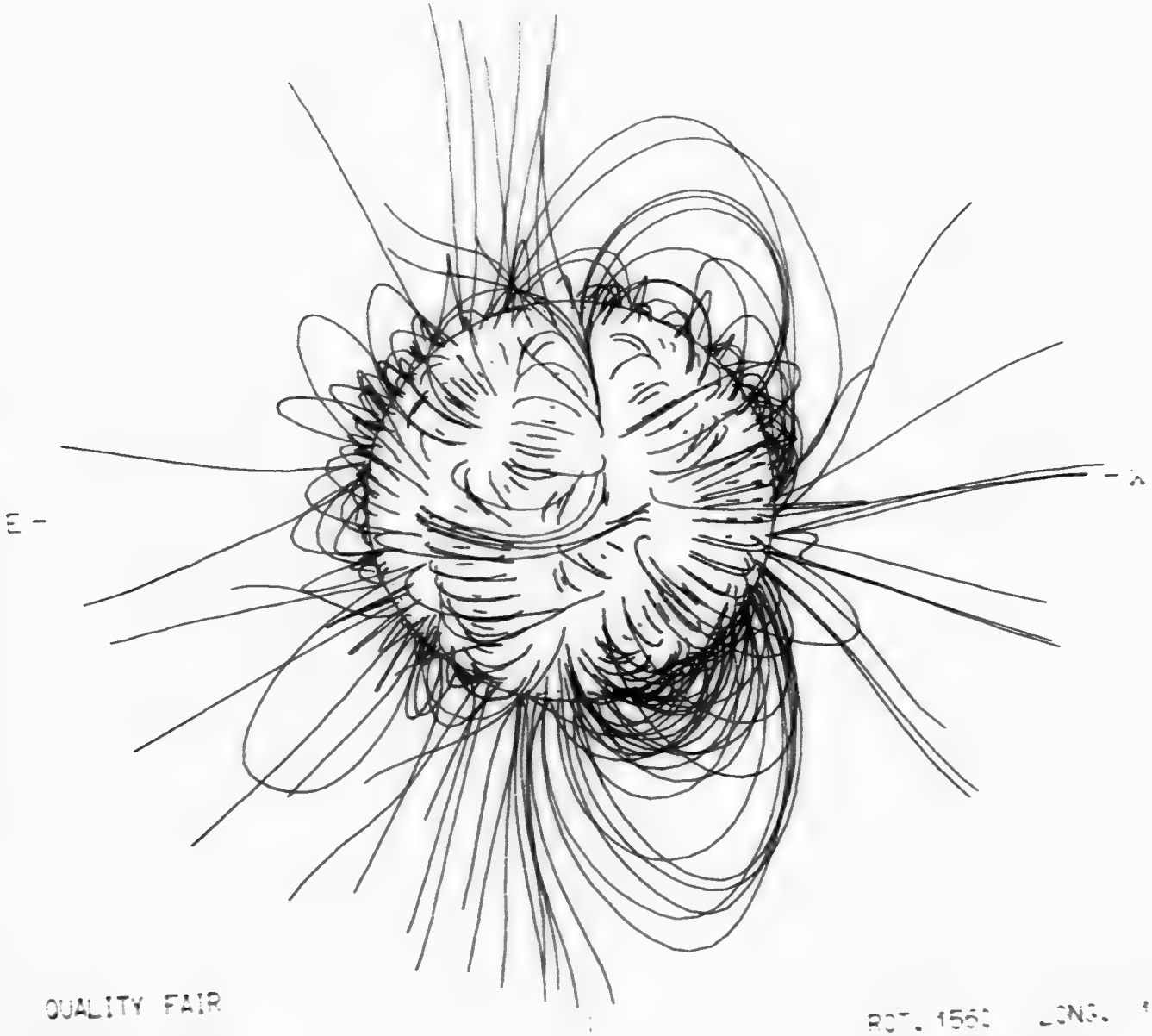
POLES DIRECT

DATA WINDOW 1560.47

ROT. 1560 LONG. 0°

8.9 MAY 1970

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



QUALITY FAIR

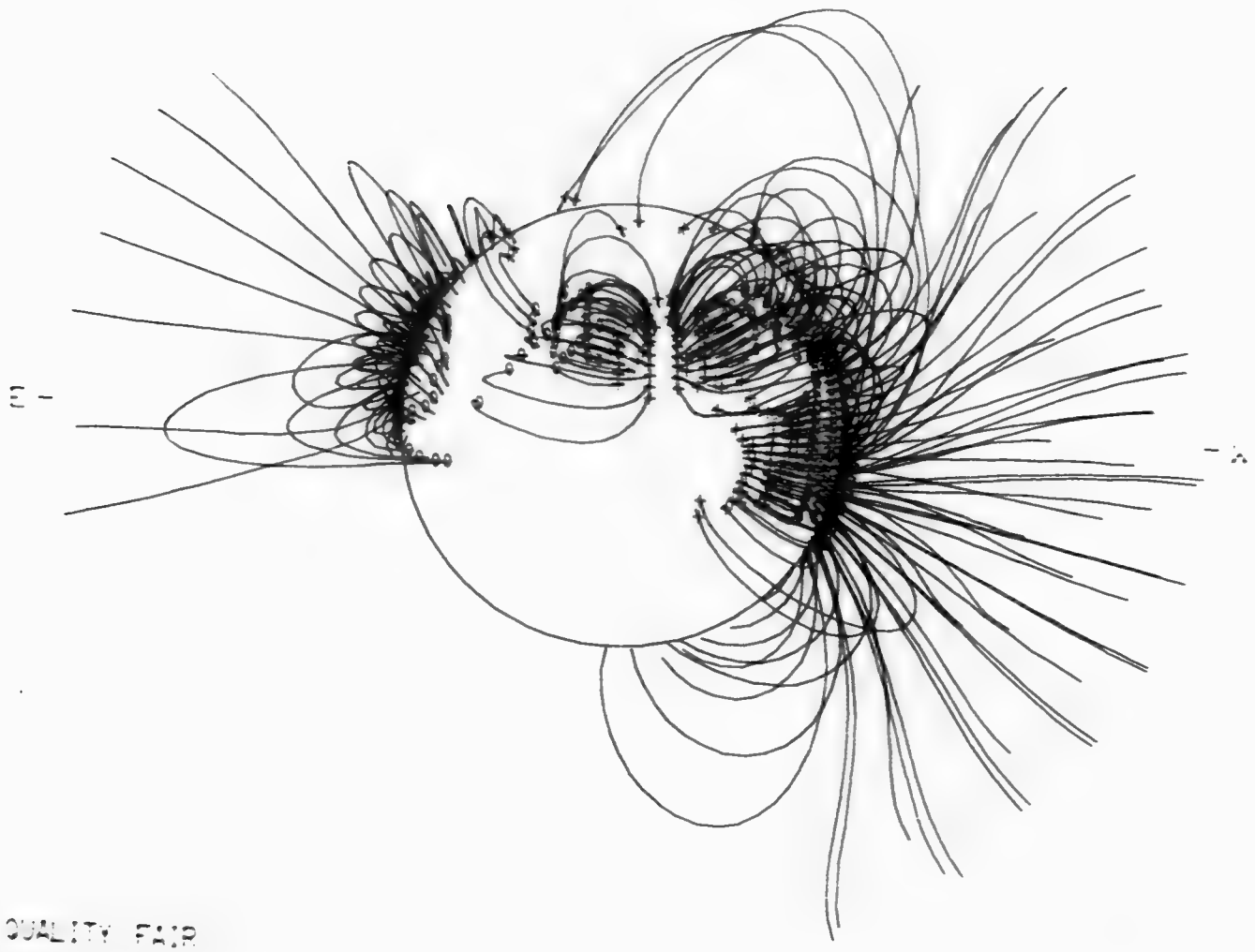
POLES DIRECT

DATA WINDOW 1560.47

ROT. 1560 LONG. 1[illegible]°

S.[illegible] MA. 197[illegible]

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



QUALITY FAIR

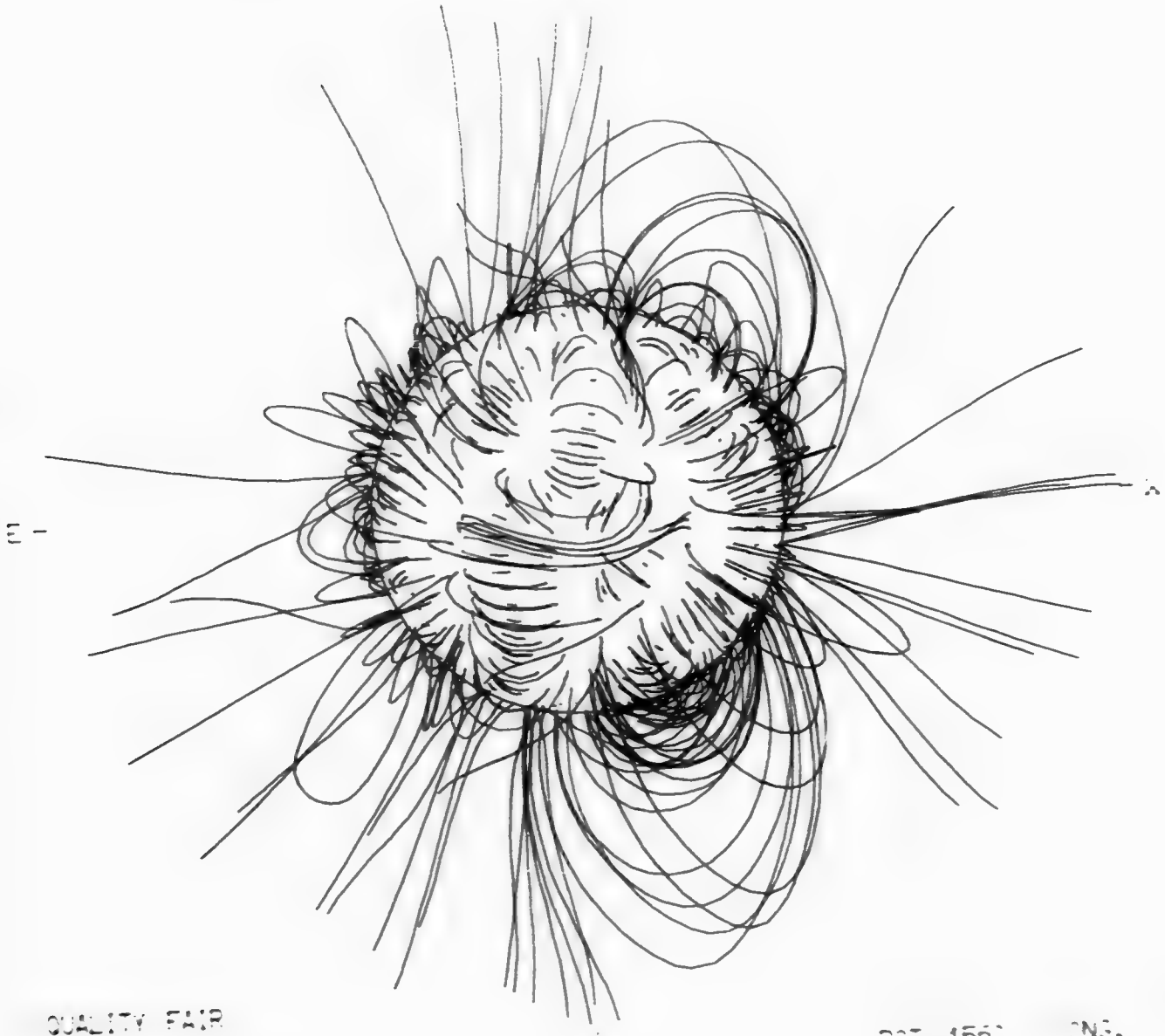
POLES DIRECT

DATA WINDOW 1560.4T

ROT. 1560 LONG. 1[illegible]°

9.7 MAY 197[illegible]

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



QUALITY FAIR

POLES DIRECT

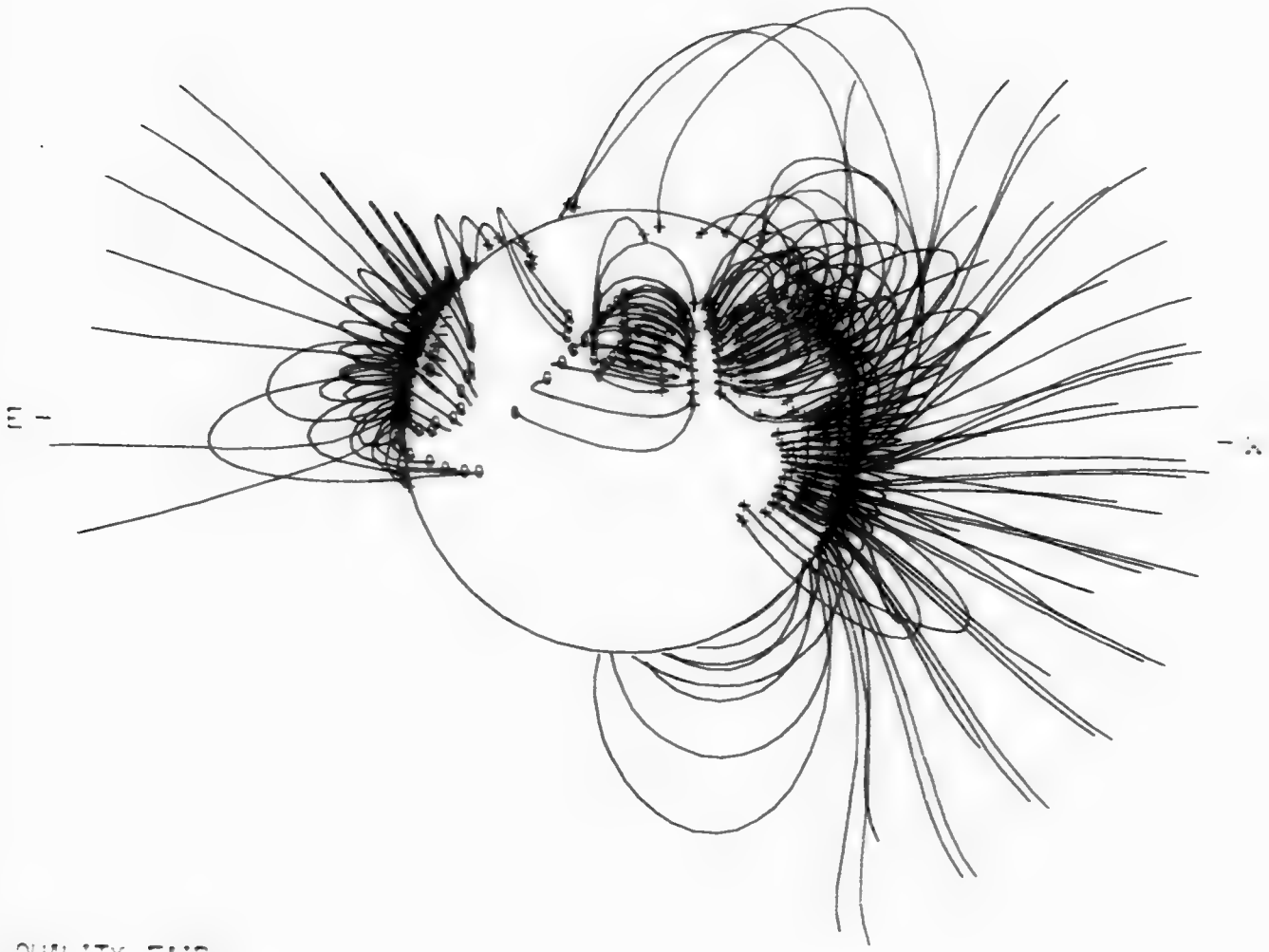
DATA WINDOW 1560.47

ROT. 1560 LONG.

10.2 MA. 197

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N



QUALITY FAIR

POLES DIRECT

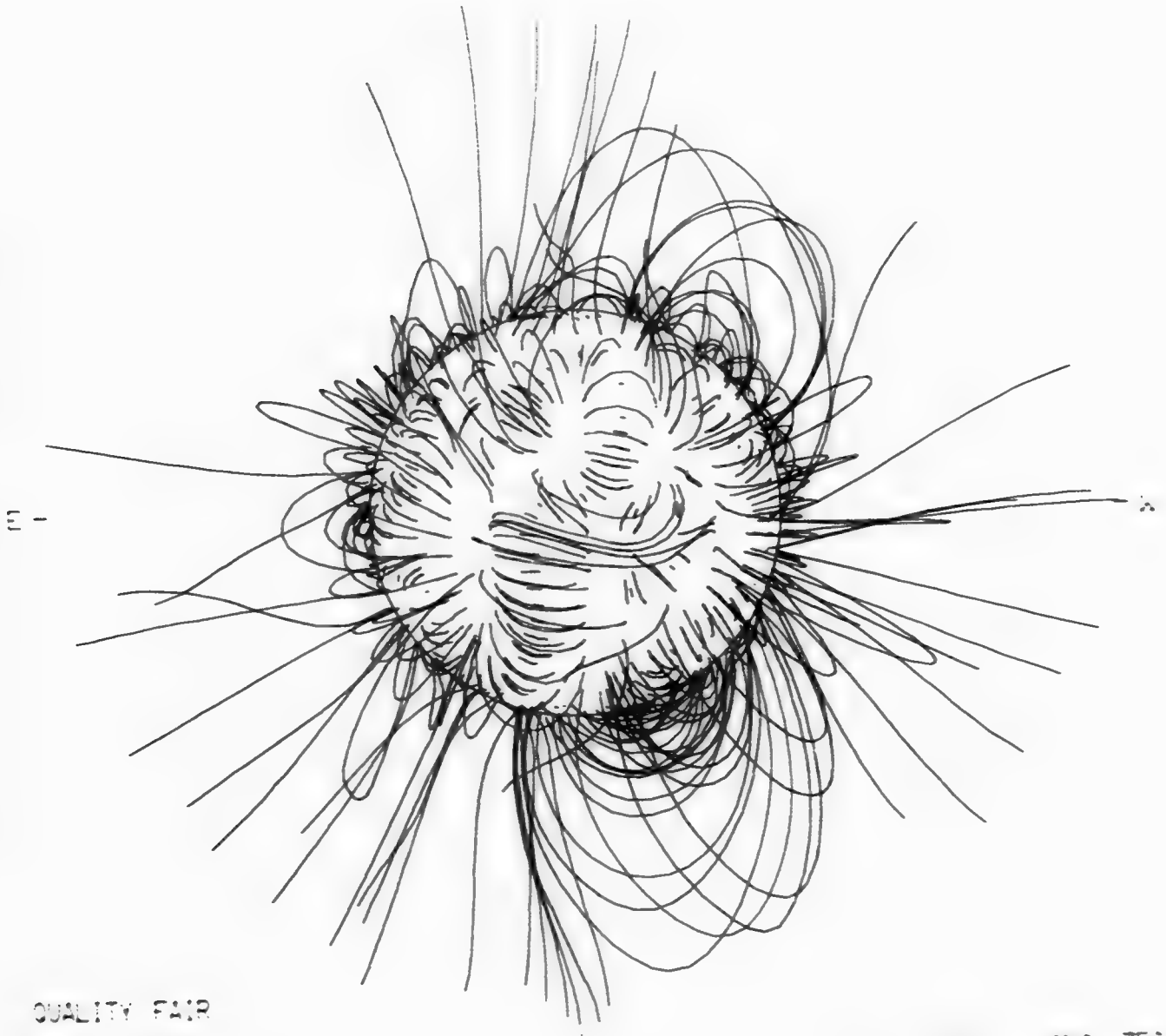
DATA WINDOW 1560.47

S

ROT. 1560 LONG. 0°

10.2 MAY 1970

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



QUALITY FAIR

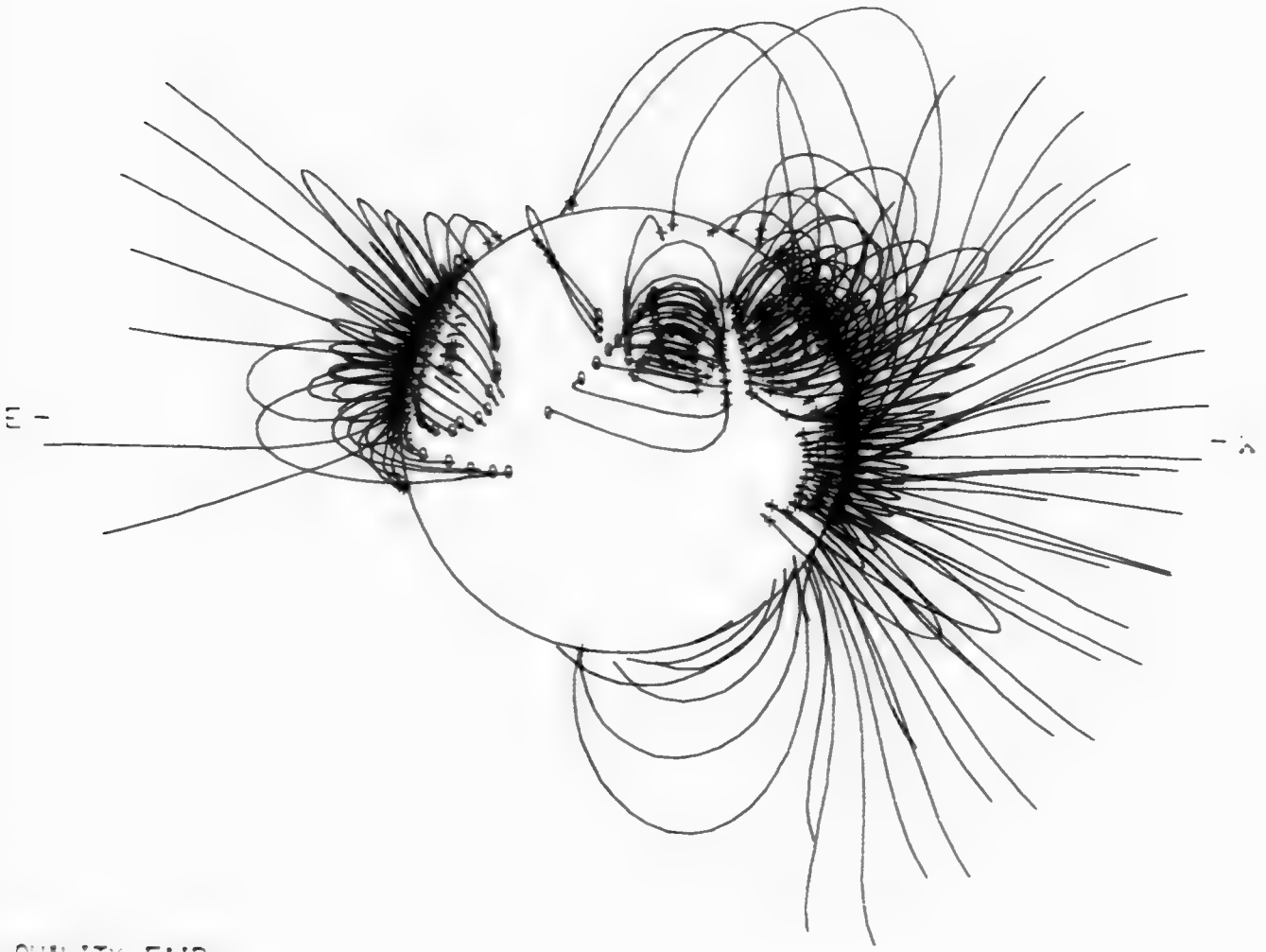
POLES DIRECT

DATA WINDOW 1560.47

ROT. 1561 LONG. 55°

11.2 MAY 197

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



QUALITY FAIR

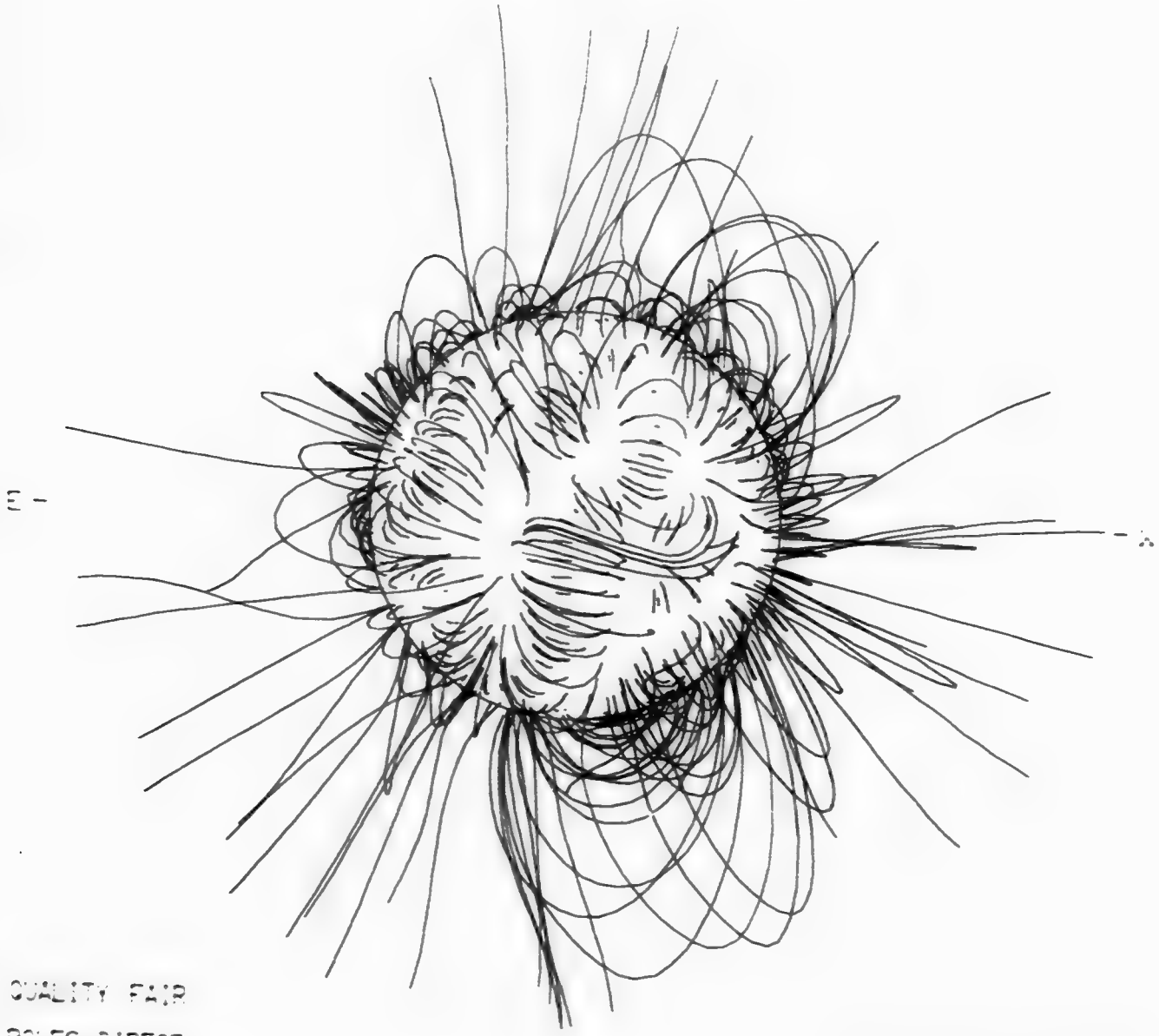
POLES DIRECT

DATA WINDOW 1560.4T

ROT. 1561 LONG. 55°

11.2 MA 197

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



QUALITY FAIR

POLES DIRECT

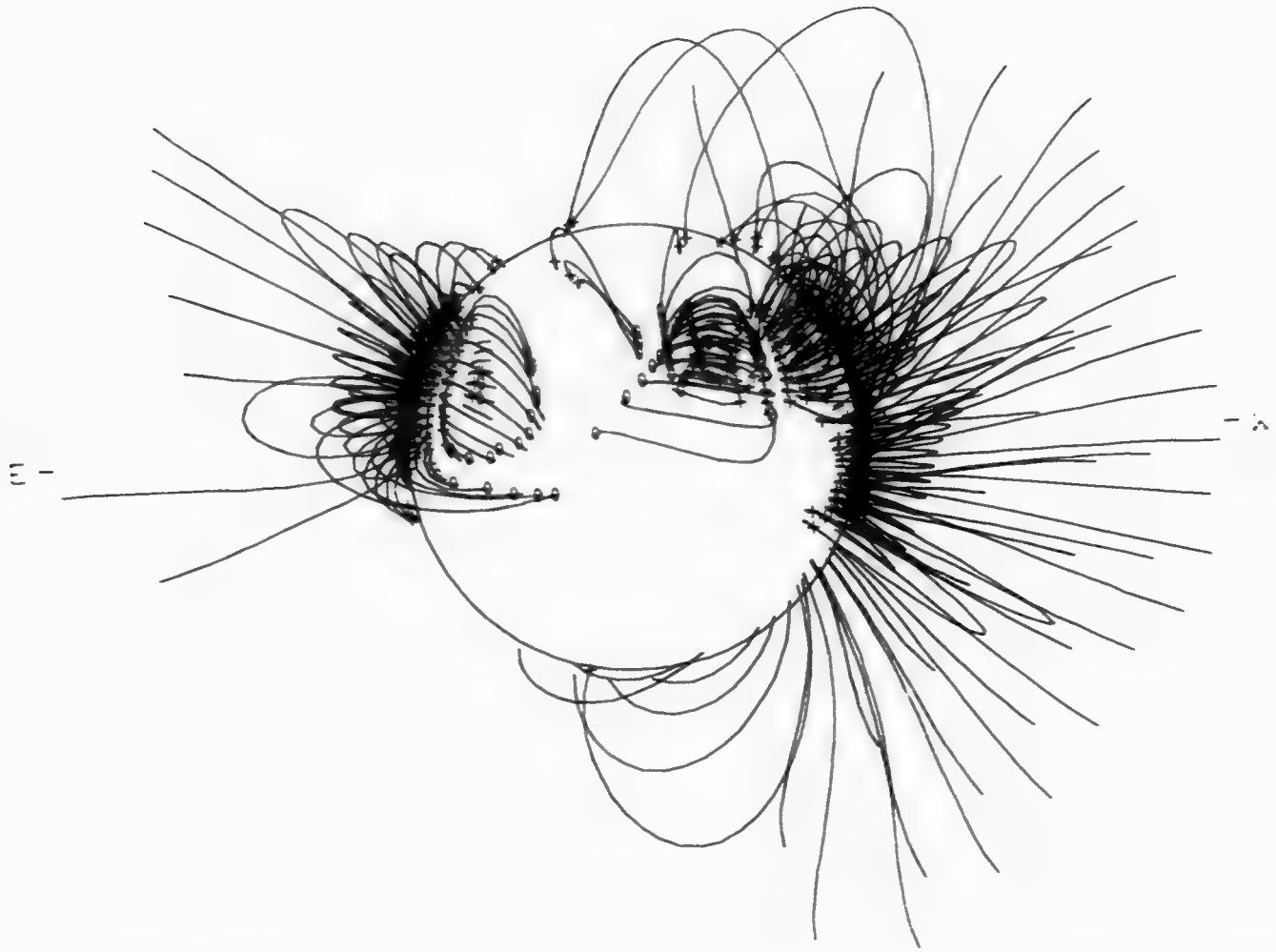
DATA WINDOW 1560.47

ROT. 1561 LONG. 5[illegible]°

12.0 MA[illegible] 197[illegible]

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N



S

QUALITY FAIR

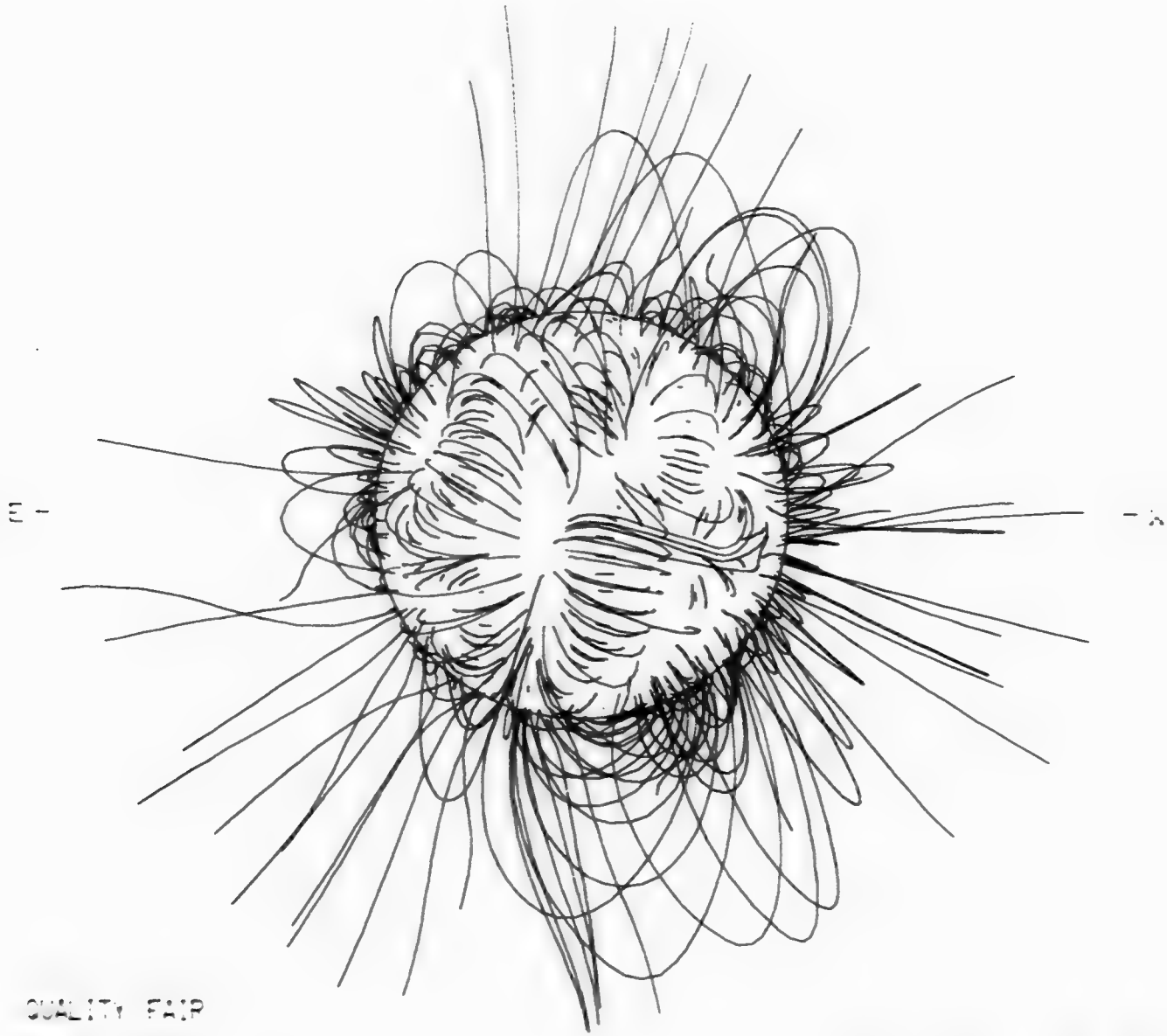
POLES DIRECT

DATA WINDOW 1560.4T

DOT. 1561 LONG. 3[illegible]°

12.0 MAY 197[illegible]

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



QUALITY FAIR

POLES DIRECT

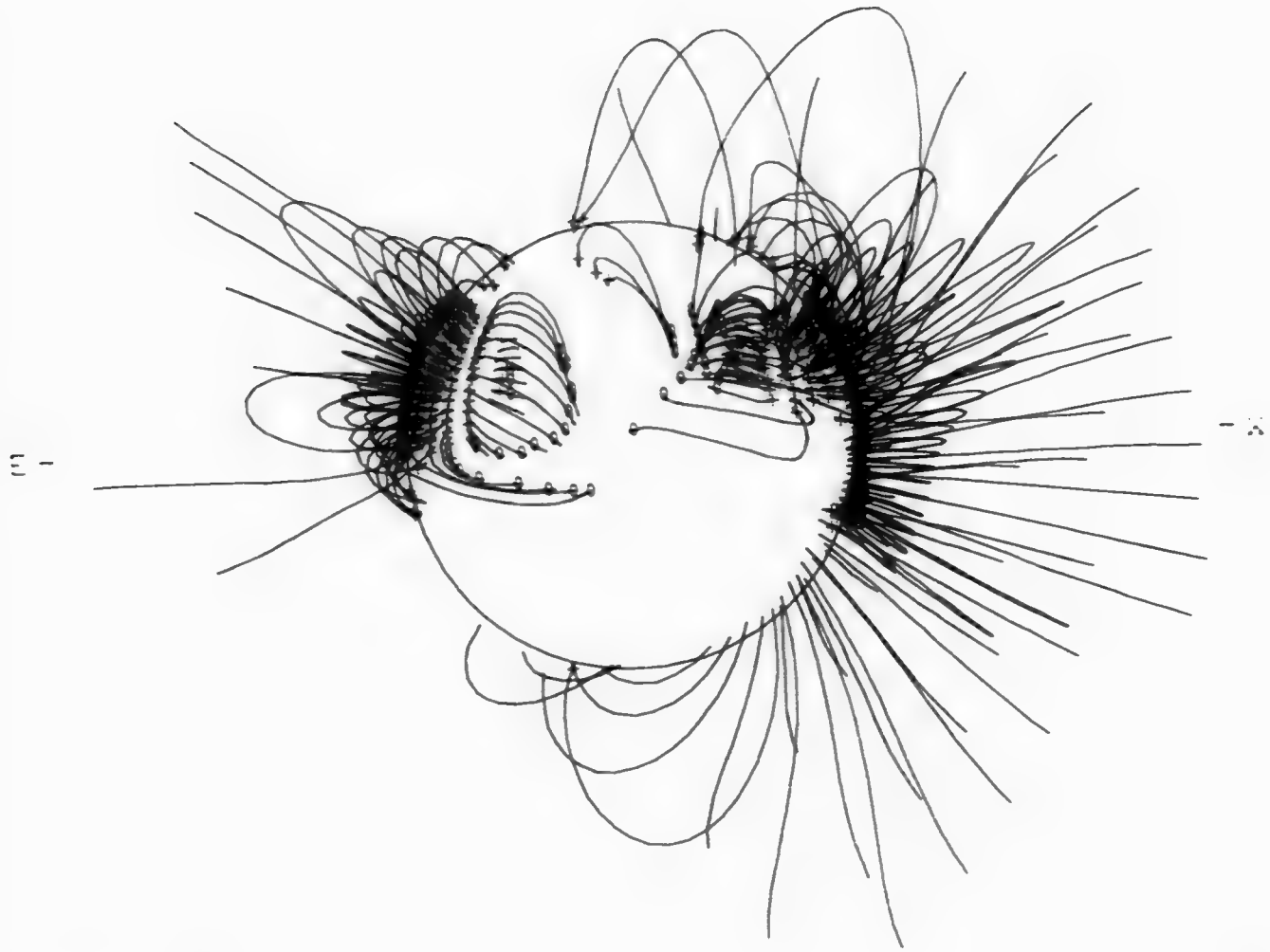
DATA WINDOW 1560.47

ROT. 1561 LONG. 55°

12.7 MAY 1970

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N



S

QUALITY FAIR

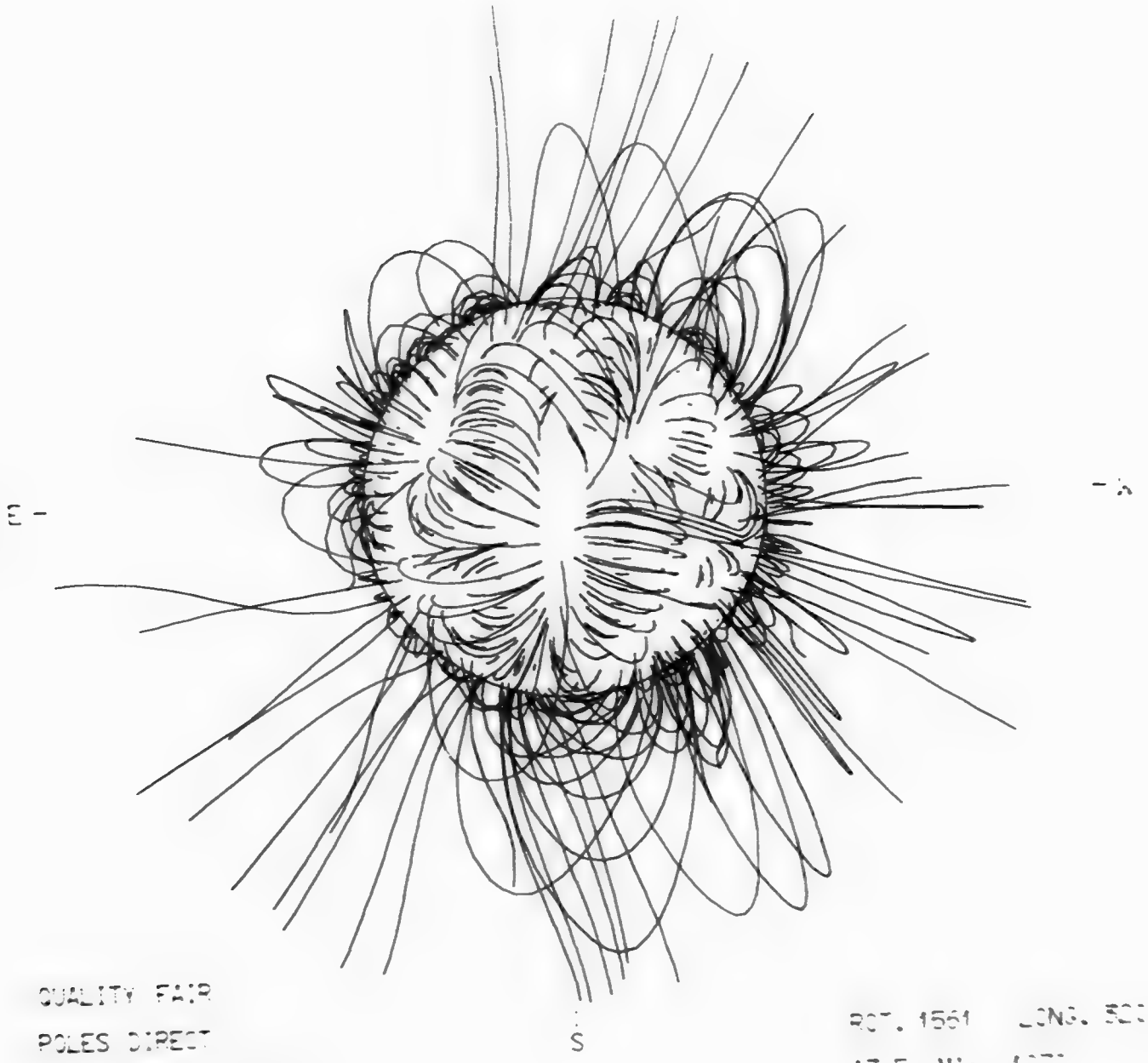
POLES DIRECT

DATA WINDOW 1560.47

ROT. 1561 LONG. 351°

12 MAY 1970

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



QUALITY FAIR

POLES DIRECT

DATA WINDOW 1560.47

ROT. 1561 LONG. 321°

13.5 MA. 197[illegible]

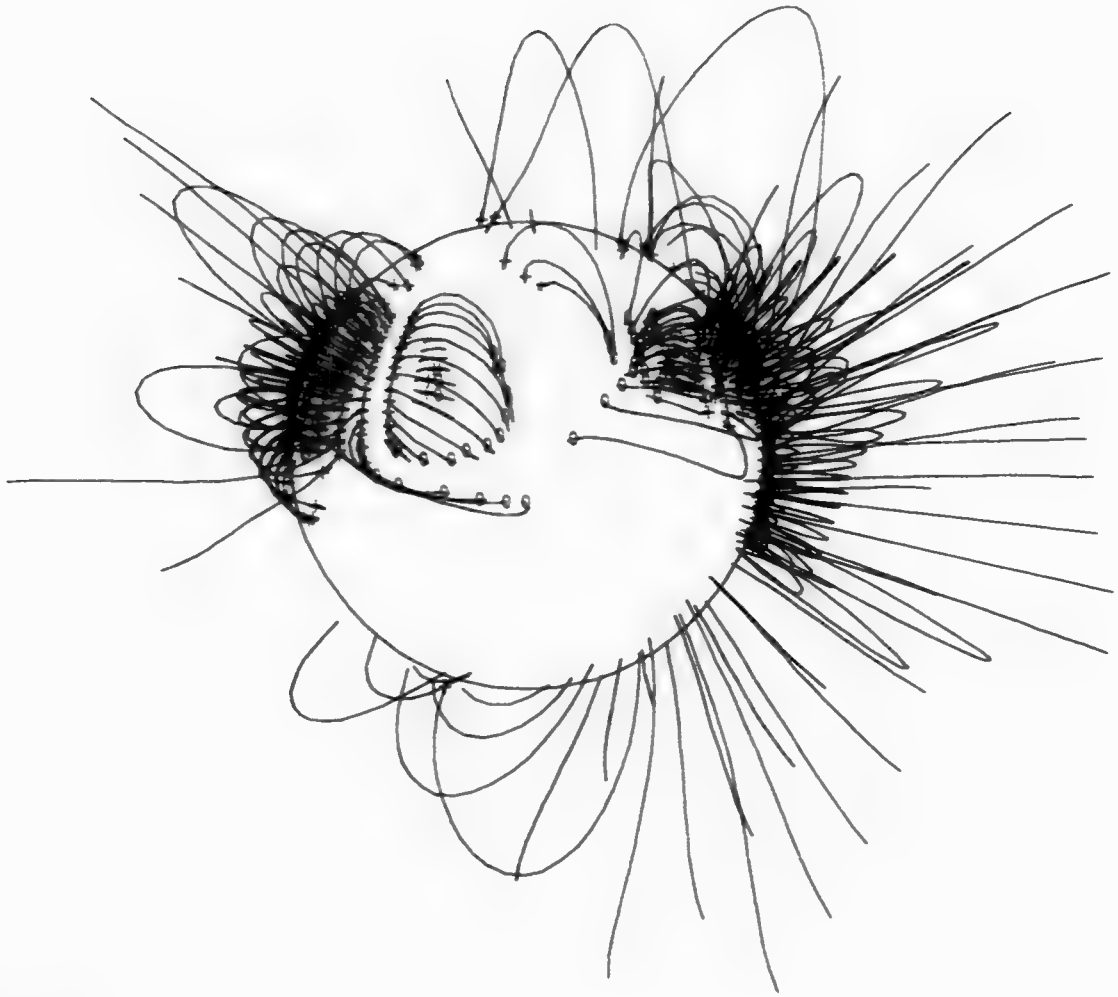
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N

E

A

S



QUALITY FAIR

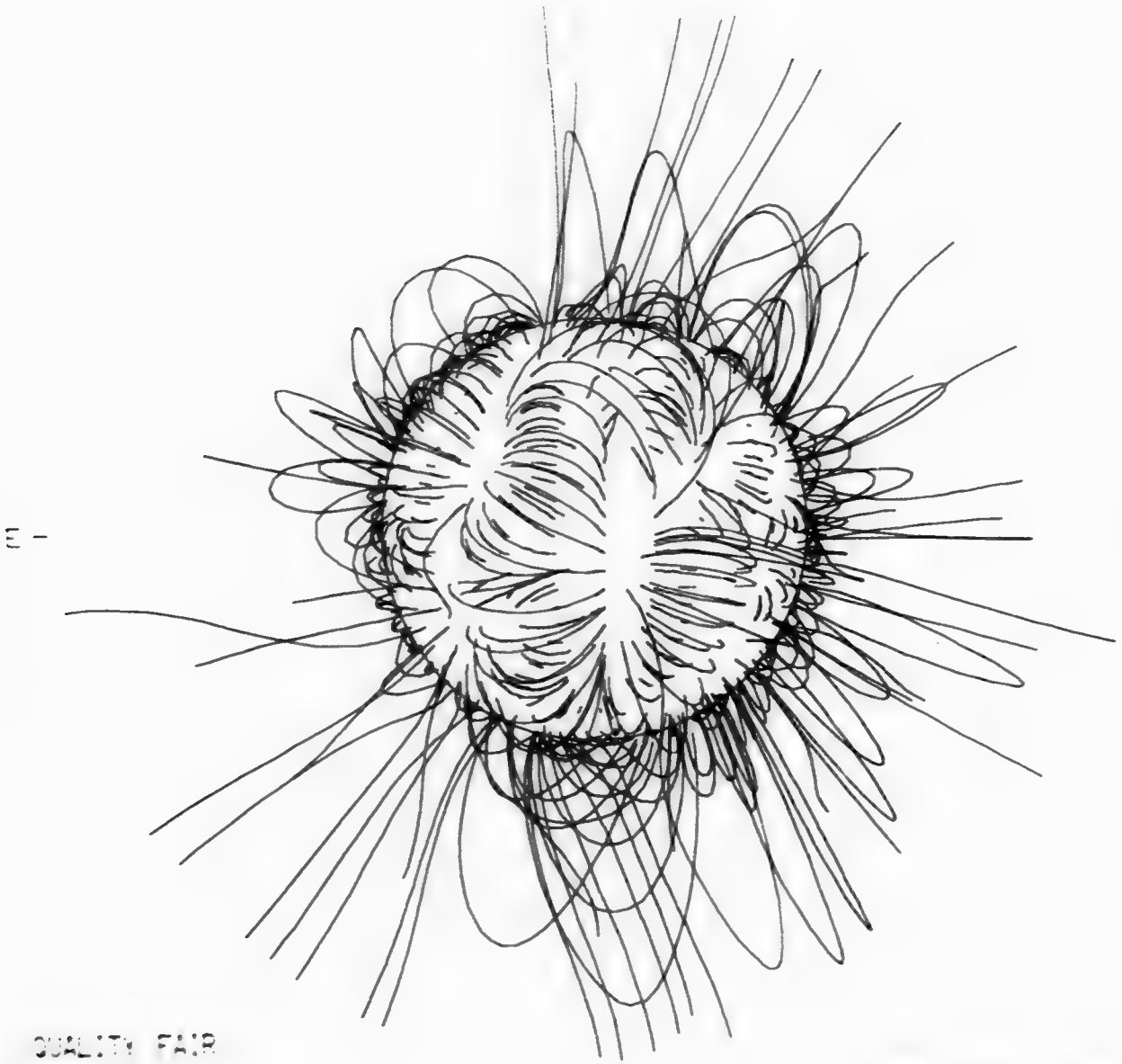
POLES DIRECT

DATA WINDOW 1560.47

ROT. 1561 LONG. 301°

13.5 MAY 1971

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



QUALITY FAIR

POLES DIRECT

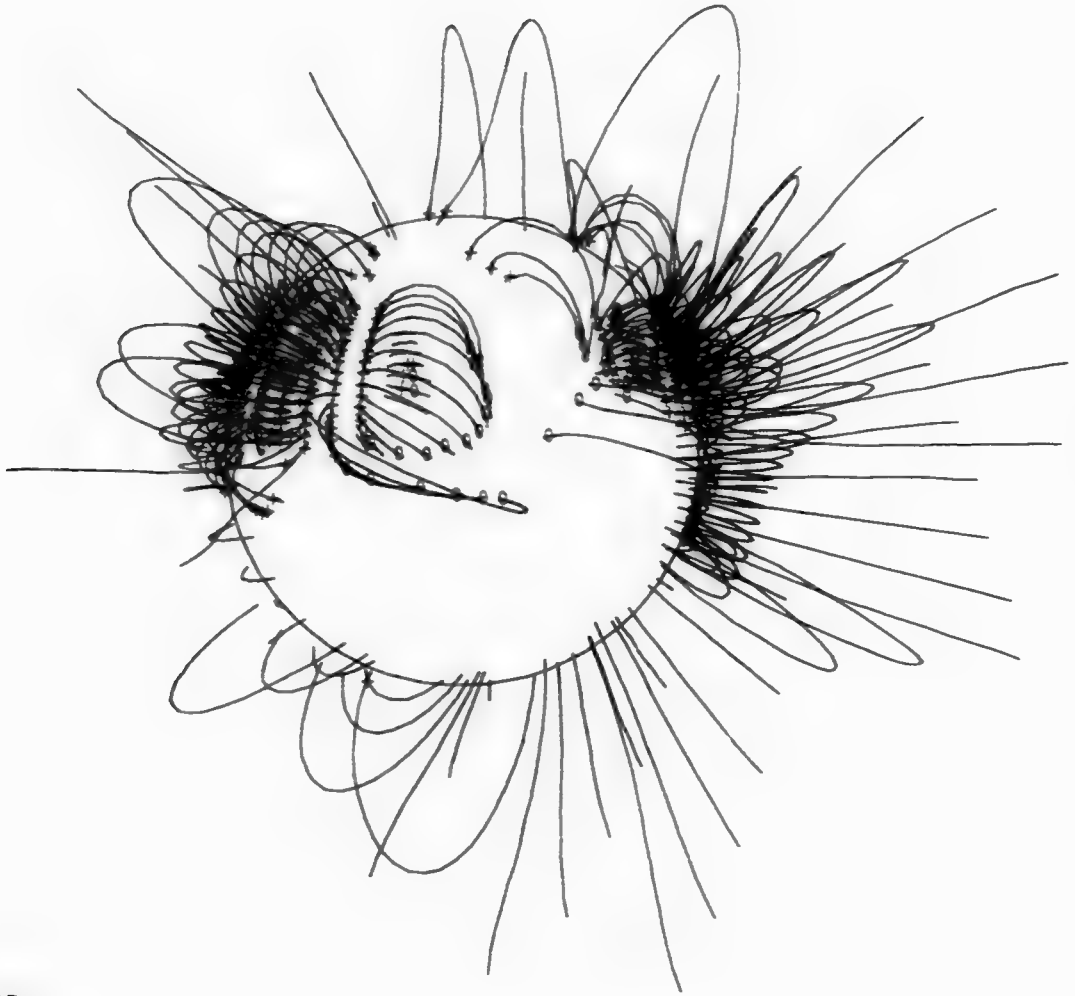
DATA WINDOW 1560.4T

ROT. 1561 LONG. 51°

14.2 MAY 1971

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N



E

A

S

QUALITY FAIR

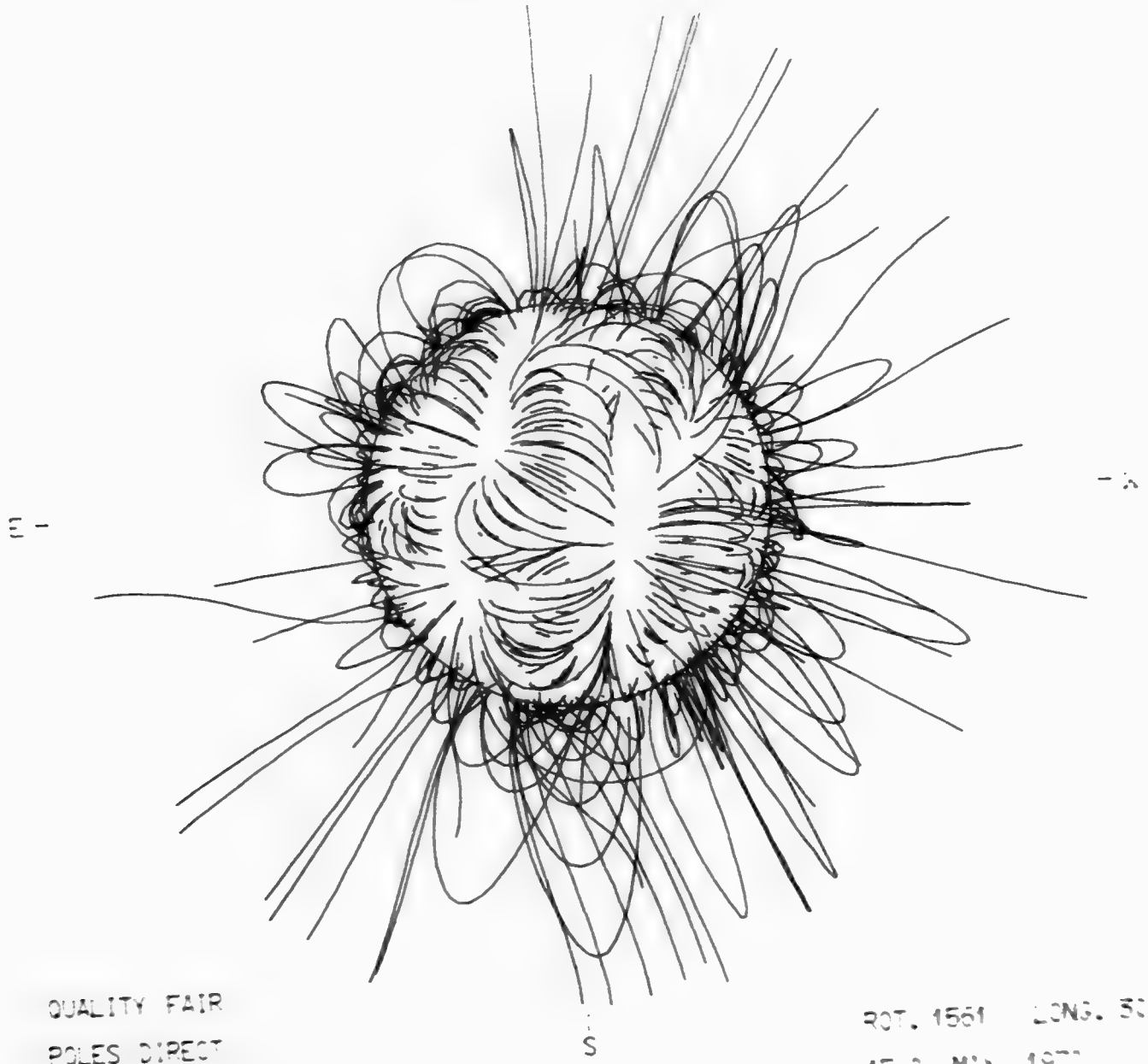
POLES DIRECT

DATA WINDOW 1560.4T

ROT. 1561 LONG. 51°

14.2 MA. 1970

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



QUALITY FAIR

POLES DIRECT

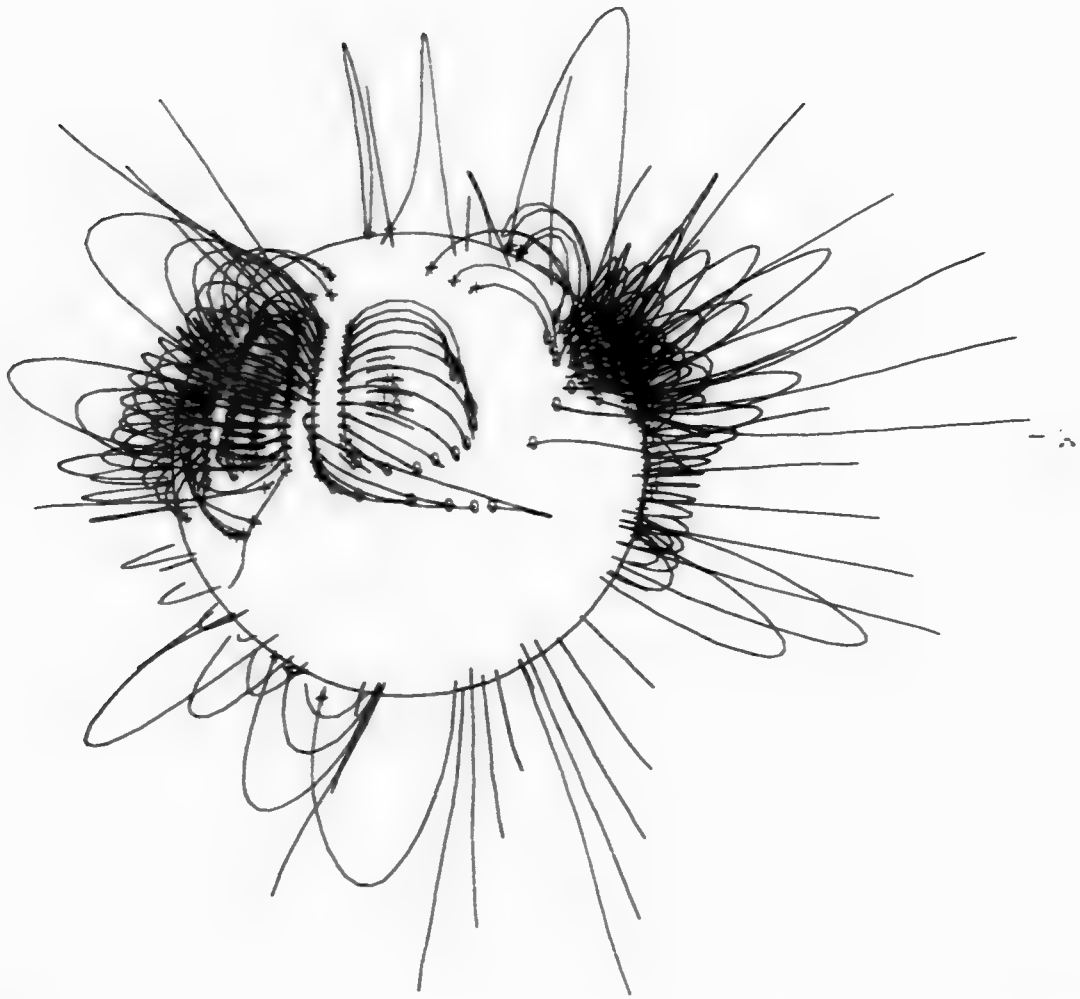
DATA WINDOW 1560.47

ROT. 1561 LONG. 3[illegible]°

15.3 MAY 197[illegible]

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N



E

A

S

QUALITY FAIR

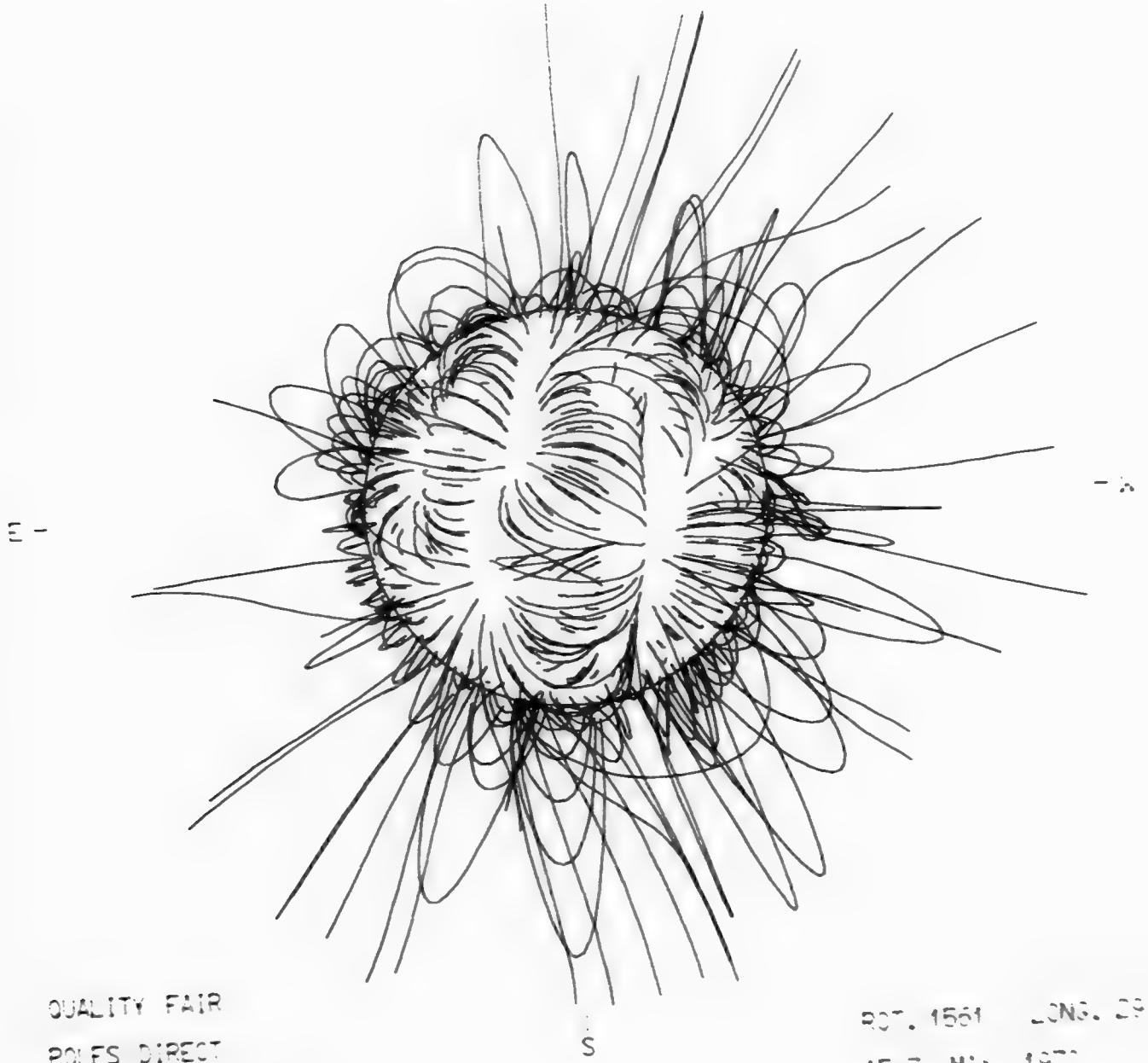
POLES DIRECT

DATA WINDOW 1560.47

ROT. 1561 LONG. 300°

15.0 MAY 1972

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



QUALITY FAIR

POLES DIRECT

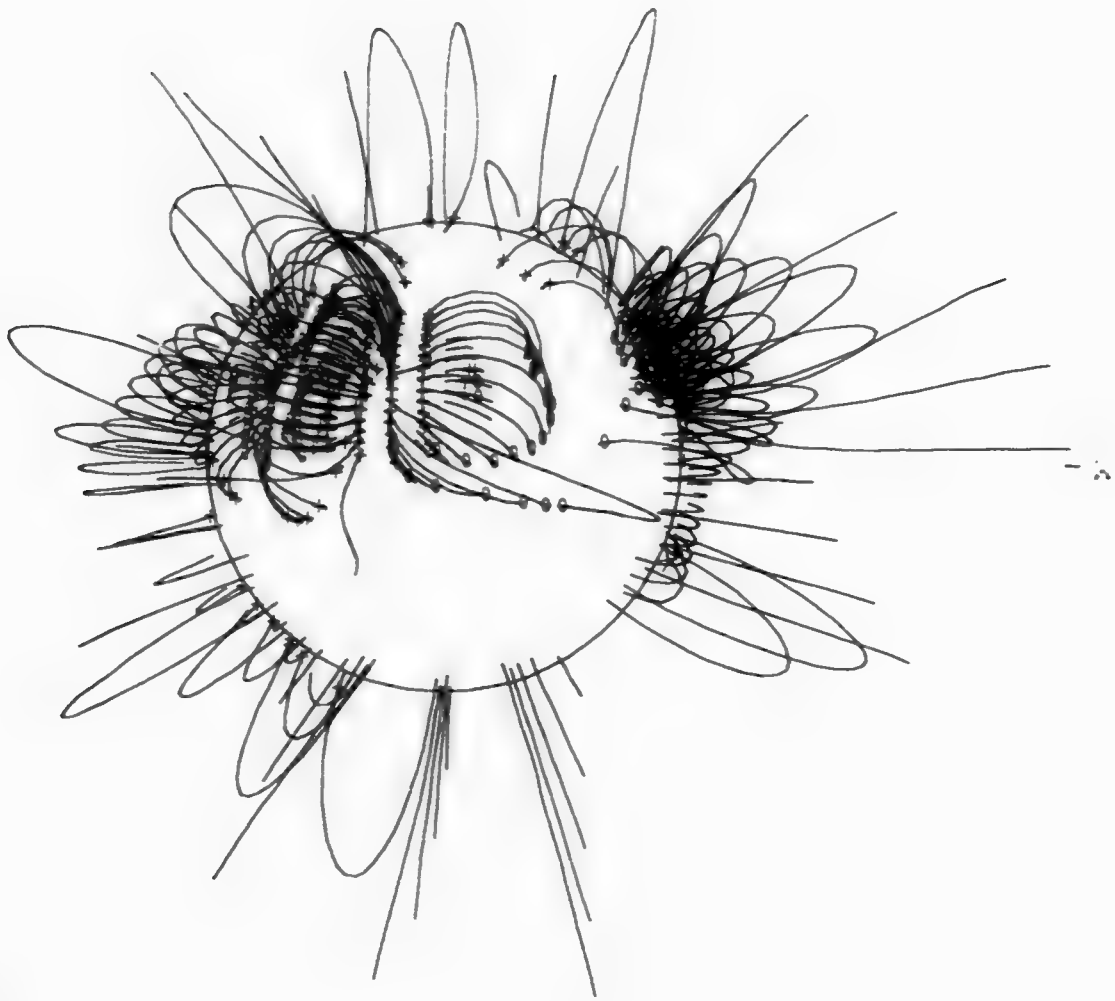
DATA WINDOW 1560.47

ROT. 1561 LONG. 295°

15.7 MAY 1970

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N



E

A

QUALITY FAIR

POLES DIRECT

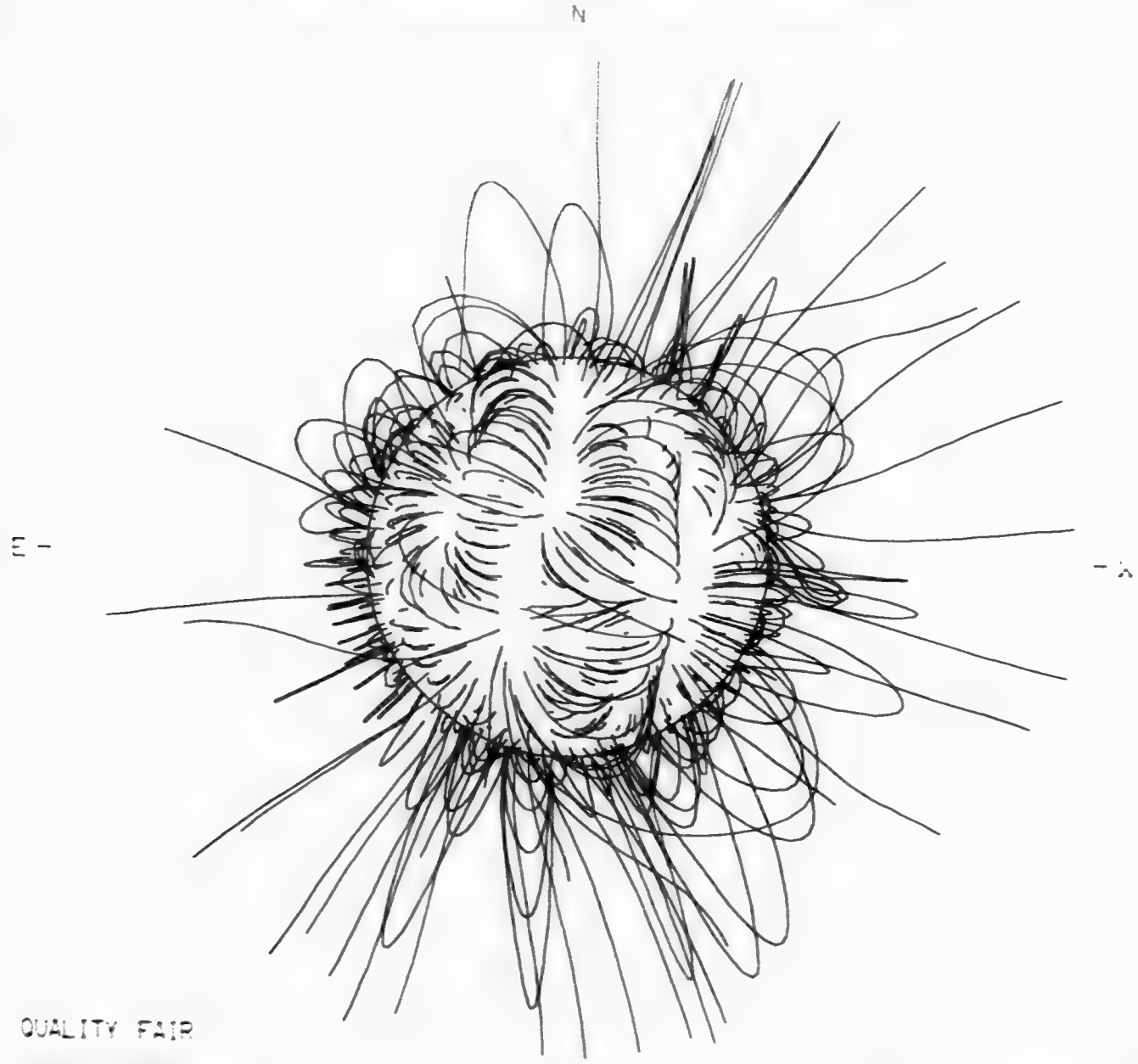
DATA WINDOW 1560.47

S

ROT. 1561 LONG. 290°

15.7 MAY 1972

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



QUALITY FAIR

POLES DIRECT

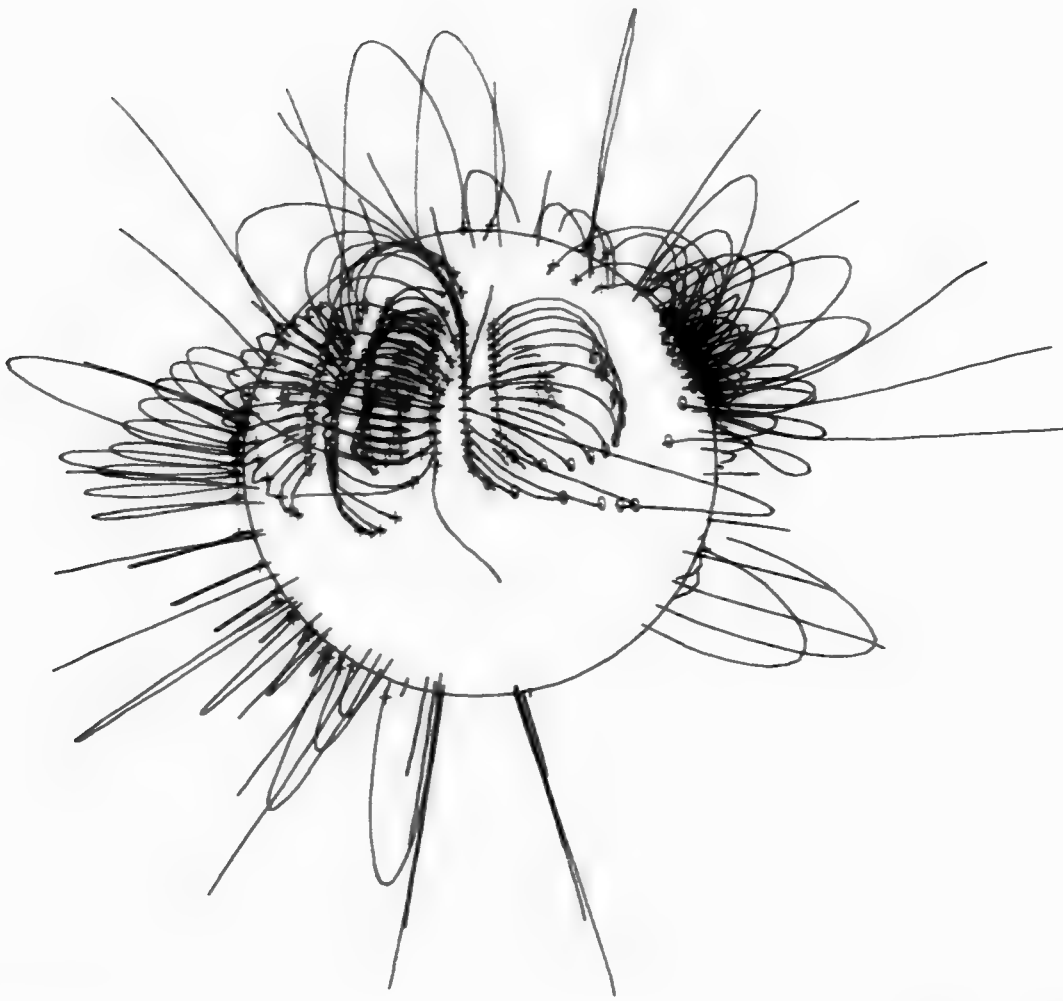
DATA WINDOW 1560.47

ROT. 1561 LONG. 251°

16.5 MAY 1971

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N



E

A

S

QUALITY FAIR

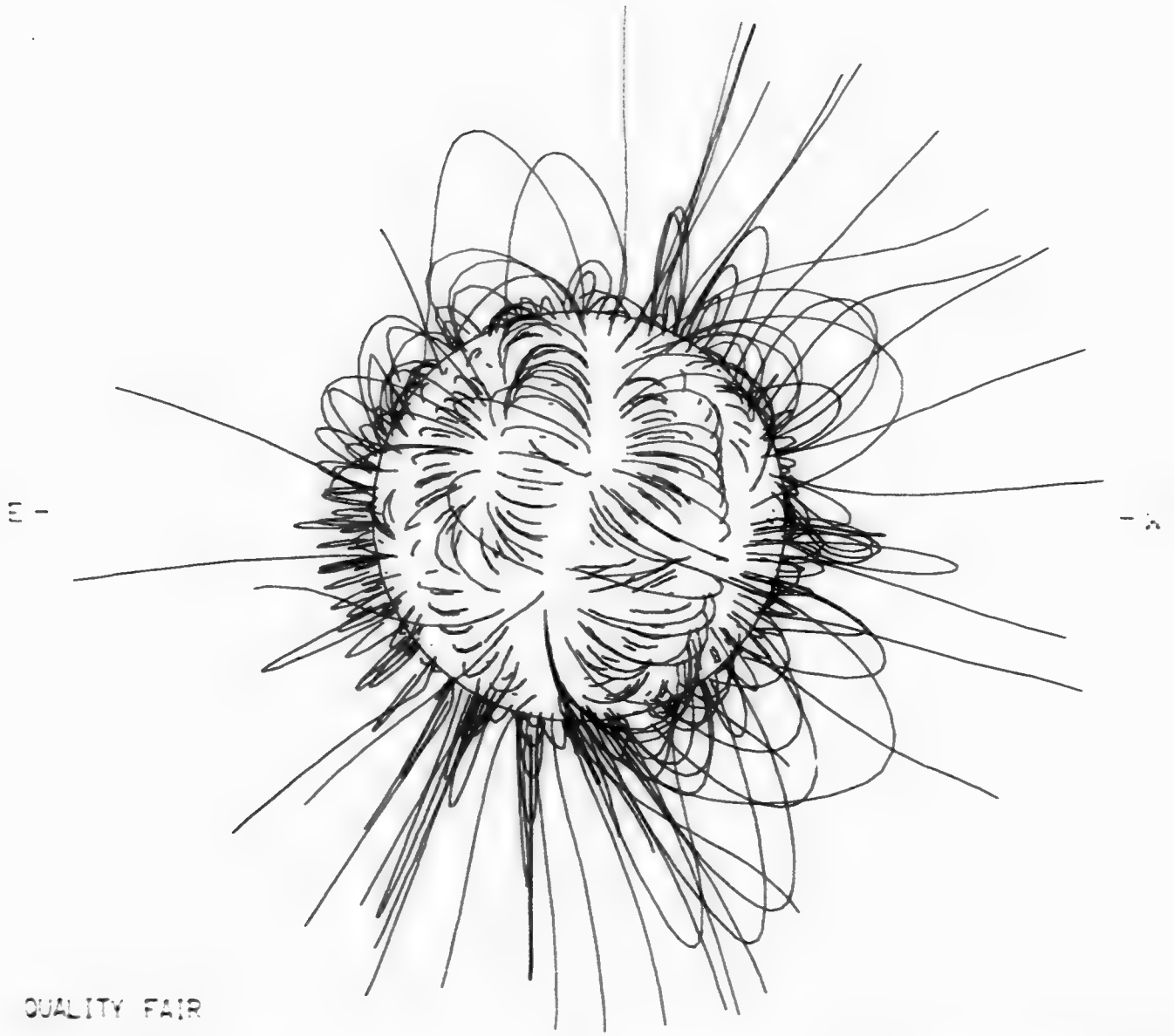
POLES DIRECT

DATA WINDOW 1560.47

ROT. 1561 LONG. 281°

16.5 MAY 1970

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



QUALITY FAIR

POLES DIRECT

DATA WINDOW 1560.4T

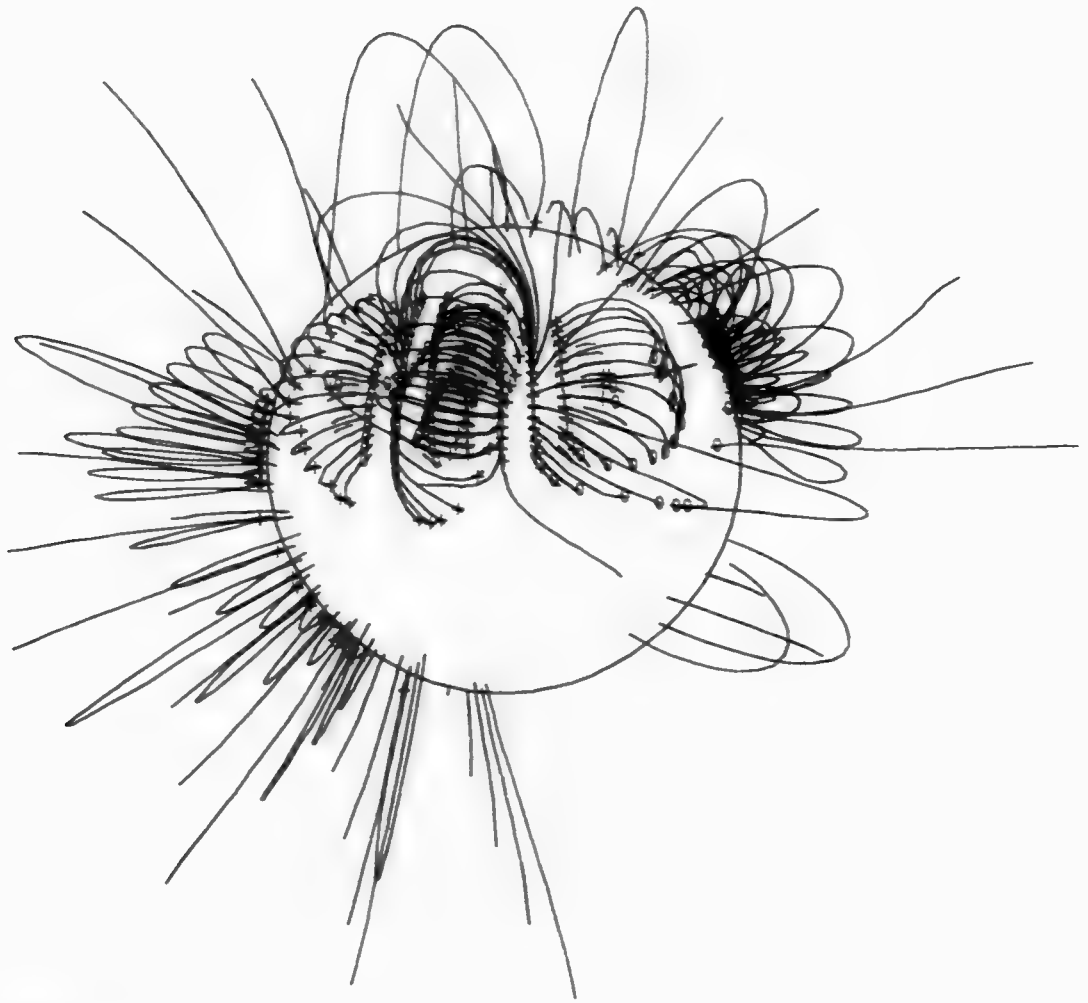
ROT. 1561 LONG. 27°

17.3 MAY 1970

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N

E -



- A

S

QUALITY FAIR

POLES DIRECT

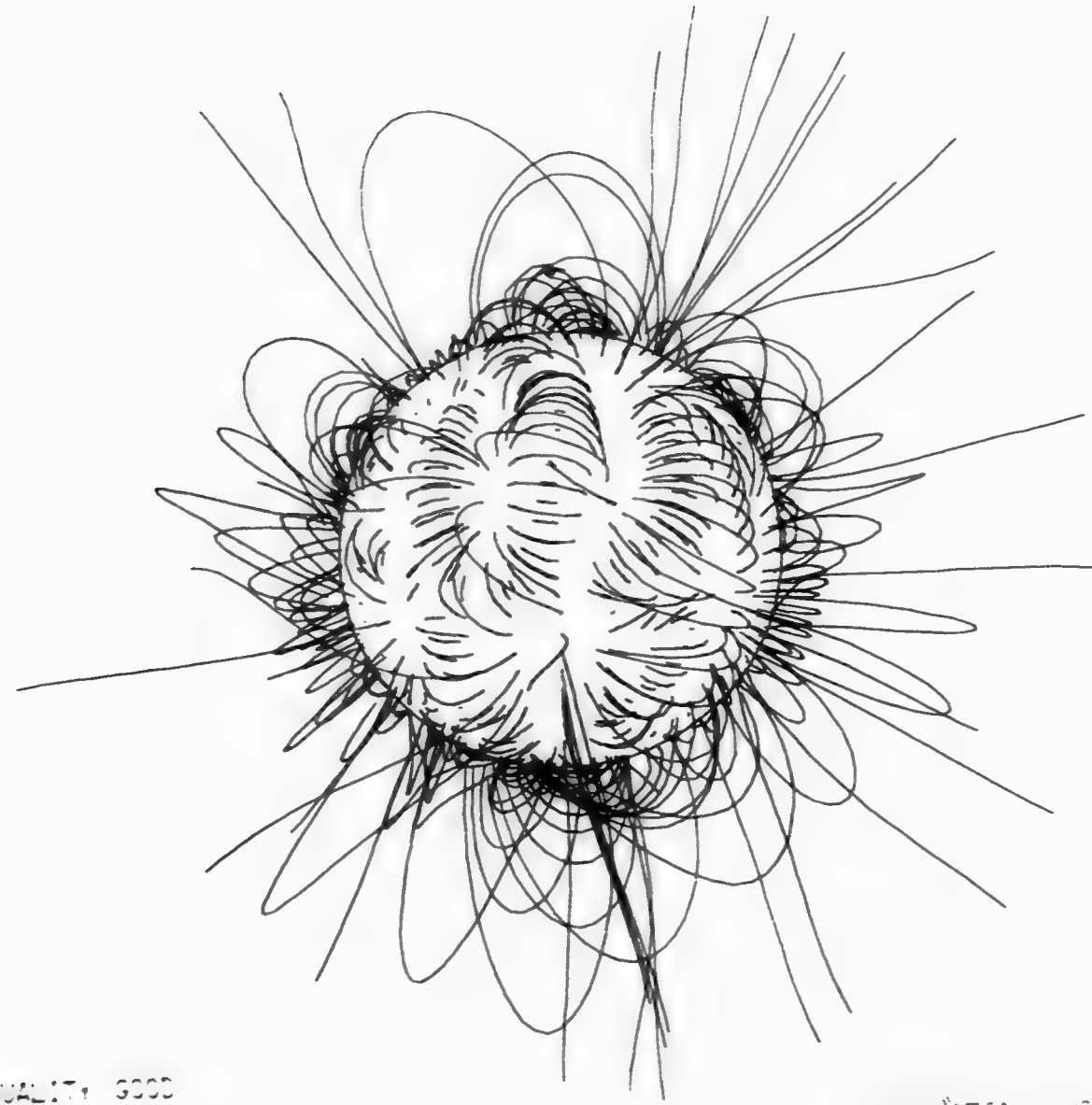
DATA WINDOW 1560.47

ROT. 1561 LONG. 270°

17.3 MAY 1972

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N



E

A

S

QUALITY GOOD

POLES DIRECT

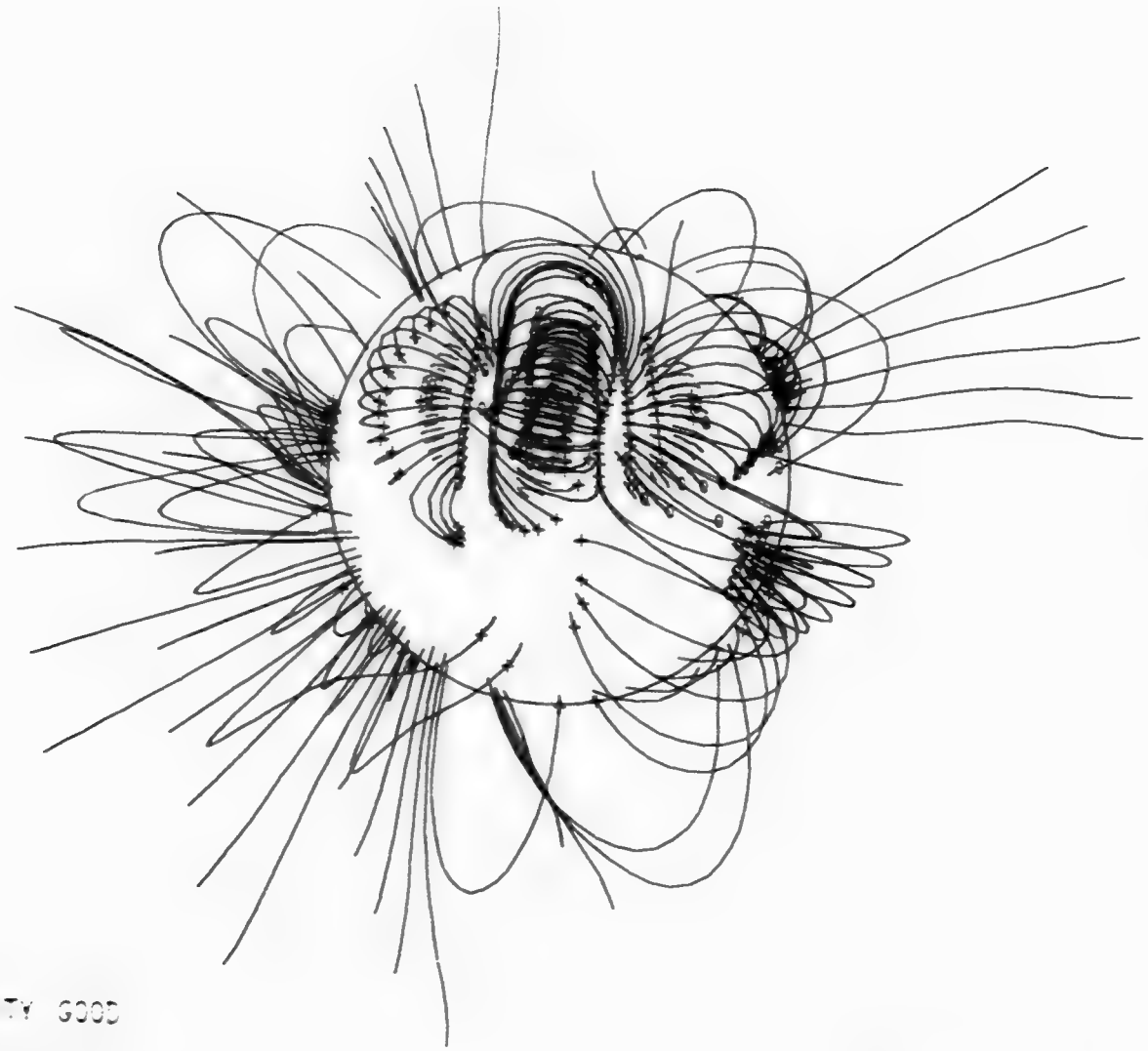
DATA WINDOW 1561.00

ROT. 1561 LONG. 261°

18.0 MAY 1971

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N



E

S

QUALITY GOOD

POLES DIRECT

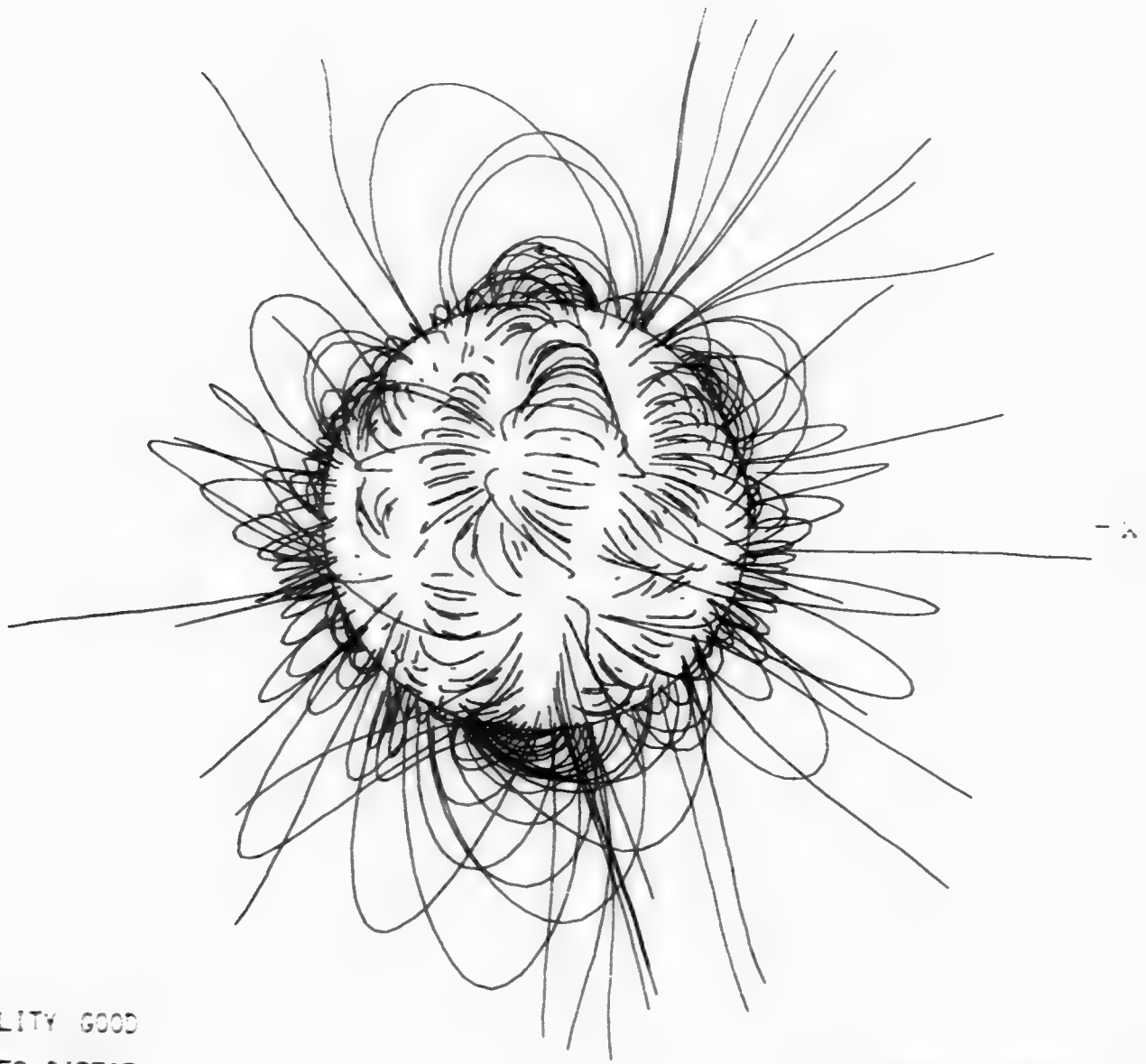
DATA WINDOW 1561.00

ROT. 1561 LONG. 261°

18.3 MAY 1973

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N



E

A

S

QUALITY GOOD

POLES DIRECT

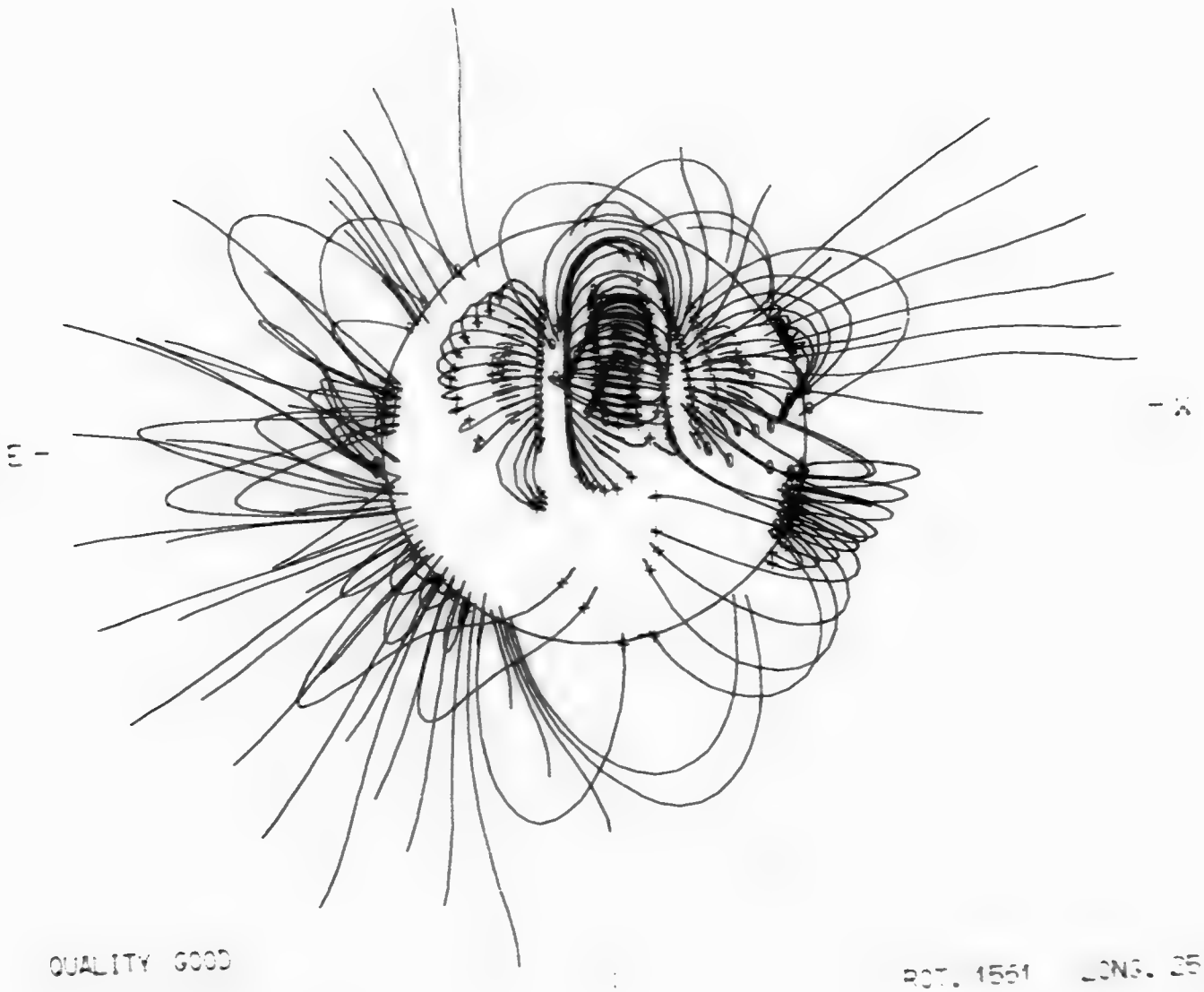
DATA WINDOW 1561.00

ROT. 1561 LONG. 251°

18.7 MAY 1973

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N



QUALITY GOOD

POLES DIRECT

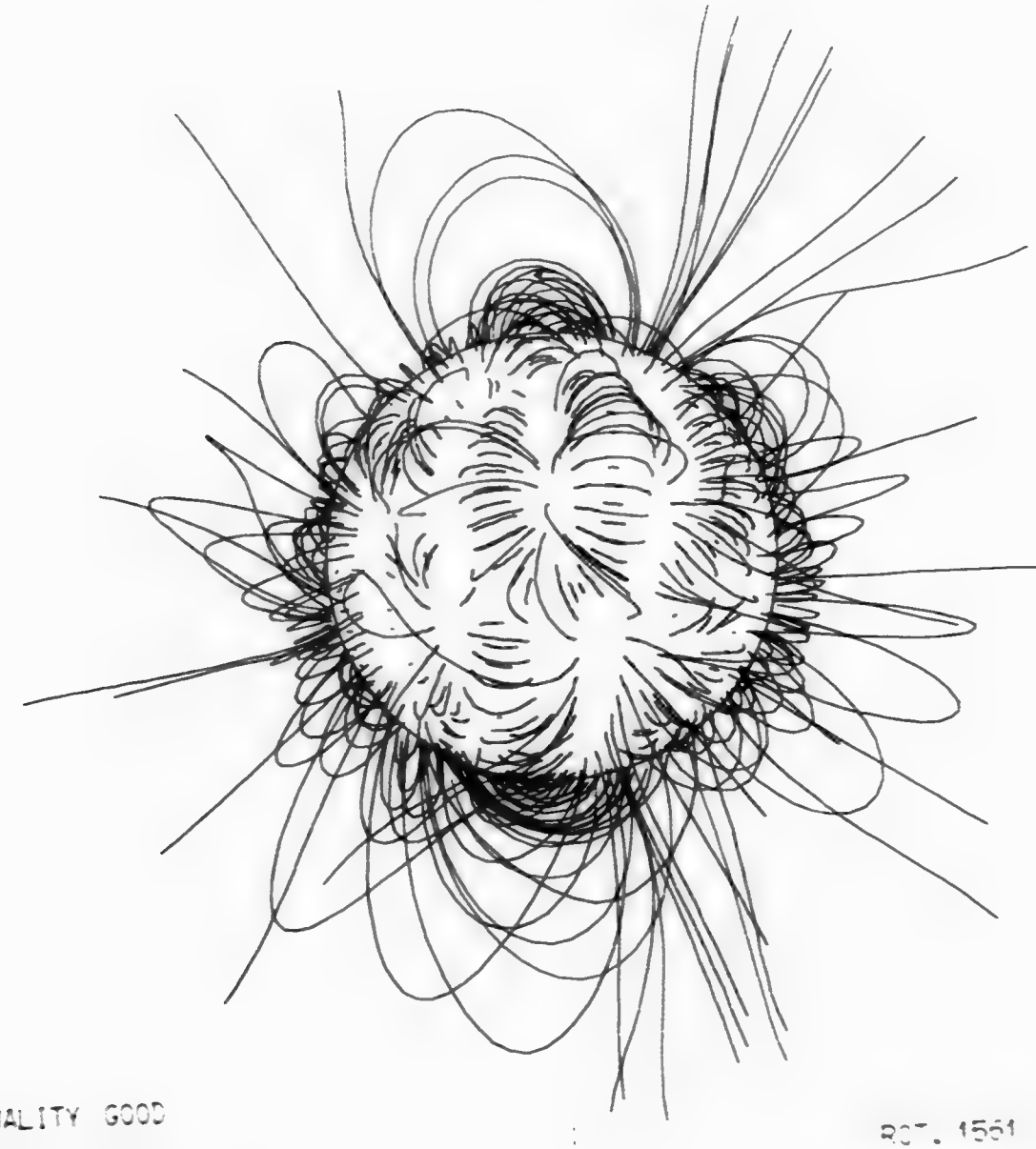
DATA WINDOW 1561.00

ROT. 1561 LONG. 25[illegible]°

18.[illegible] MAY 19[illegible]

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N



E

A

S

QUALITY GOOD

POLES DIRECT

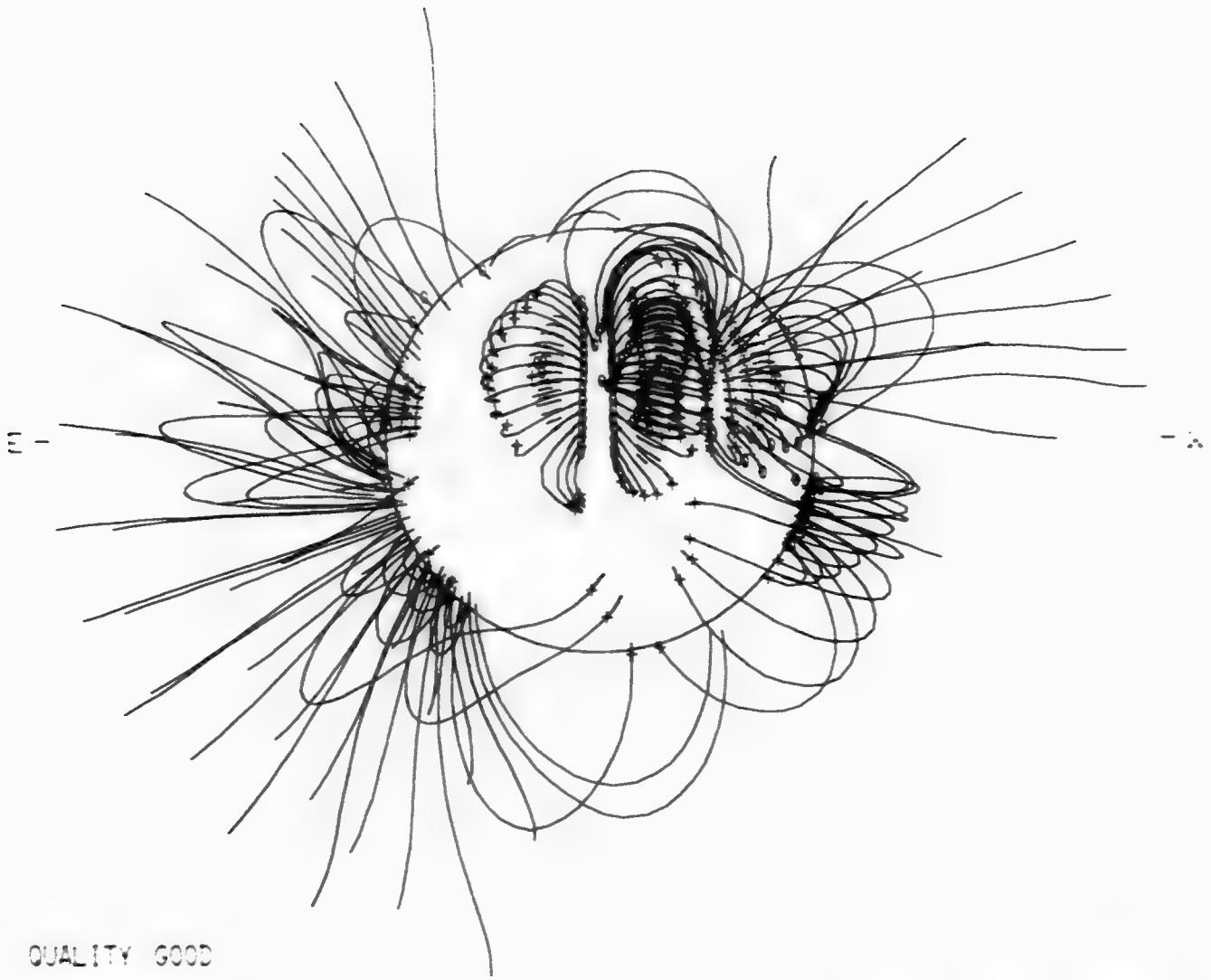
DATA WINDOW 1561.00

ROT. 1561 LONG. 2[illegible]°

19.5 MAY 197[illegible]

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N



QUALITY GOOD

POLES DIRECT

DATA WINDOW 1561.00

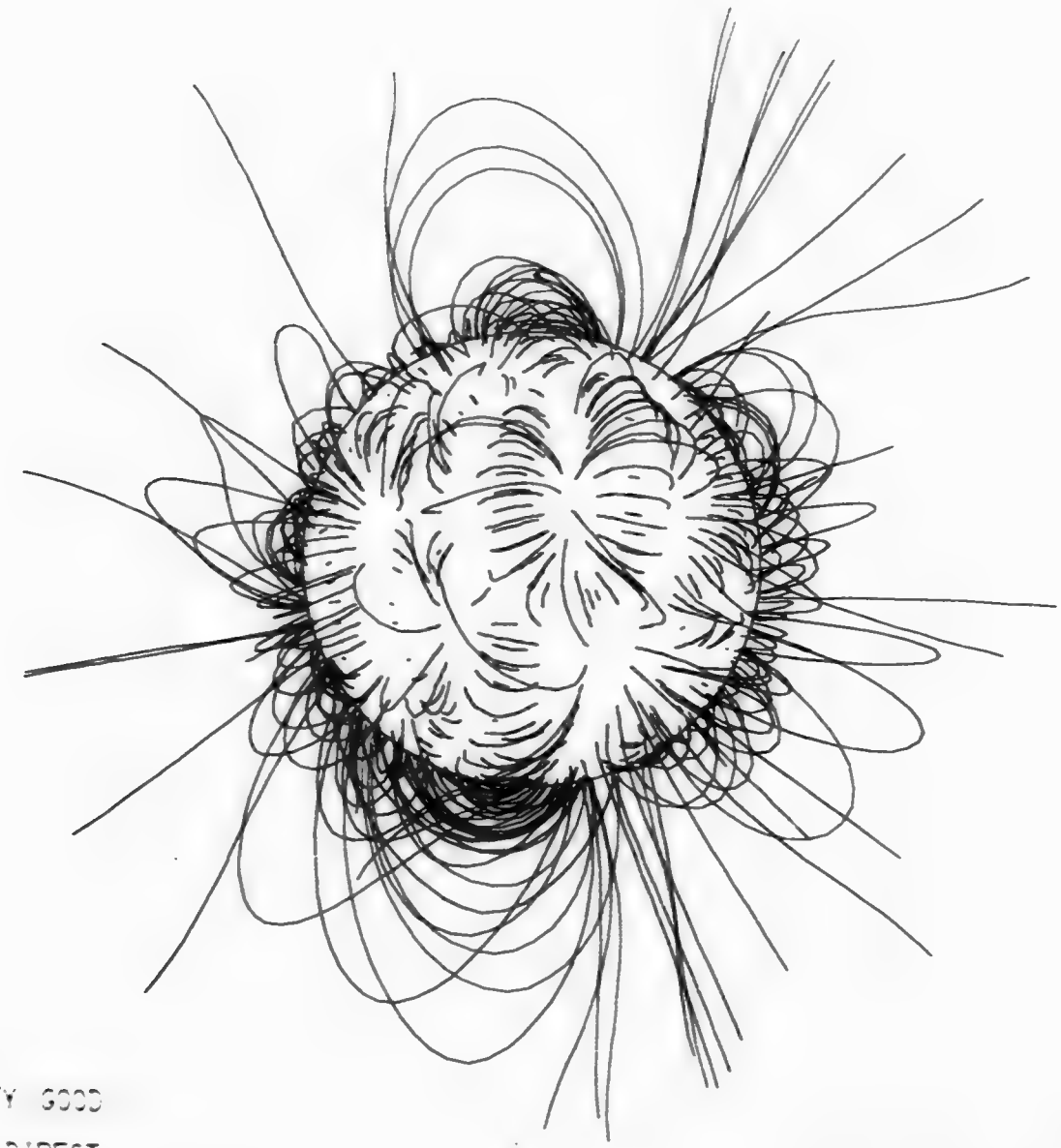
S

ROT. 1561 LONG. 240°

19.5 MAY 1970

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N



E -

- A

S

QUALITY GOOD

POLES DIRECT

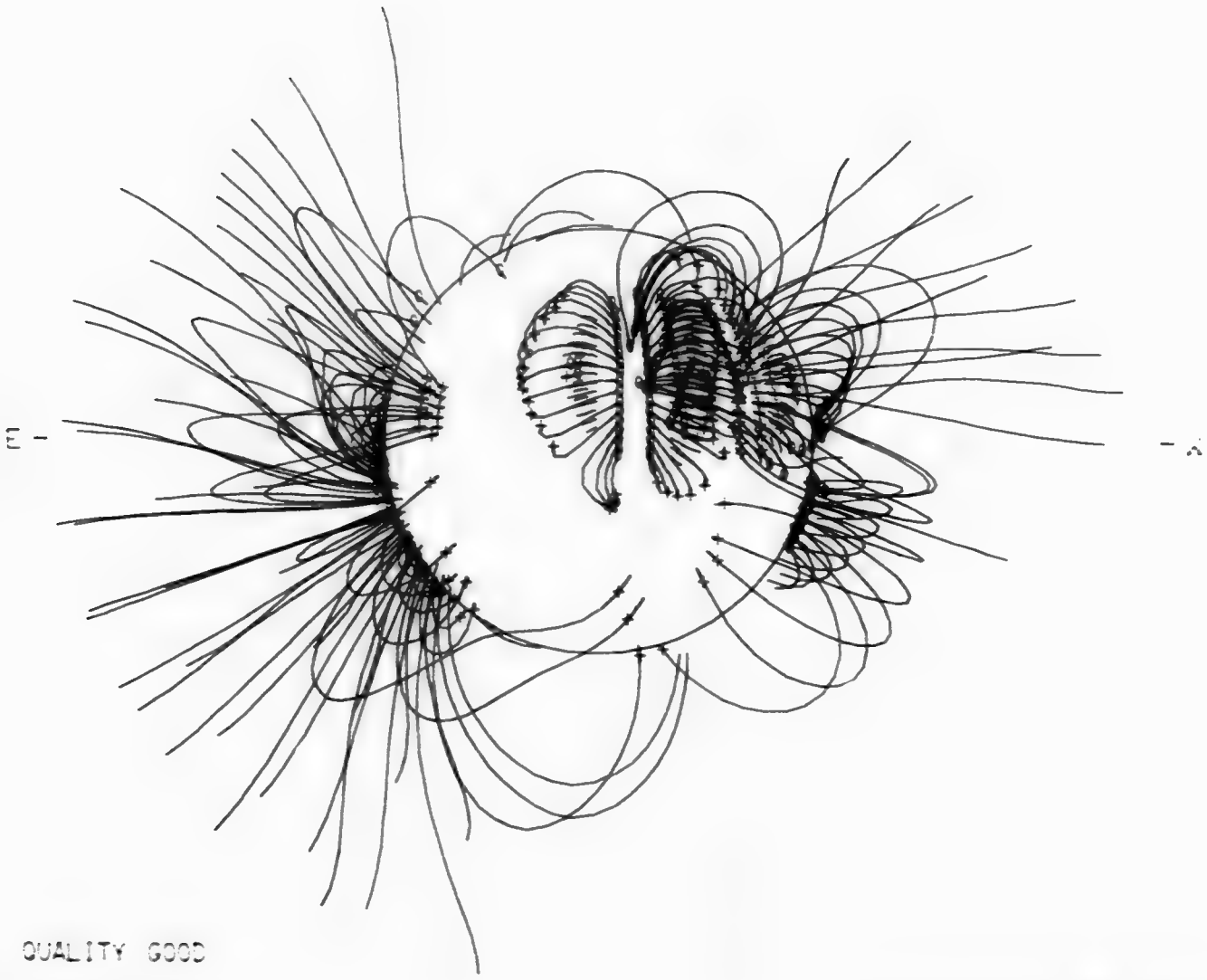
DATA WINDOW 1561.00

ROT. 1561 LONG. 351°

20.3 MAY 1973

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N



S

QUALITY GOOD

POLES DIRECT

DATA WINDOW 1561.00

ROT. 1561 LONG. 250°

20.3 MAY 1970

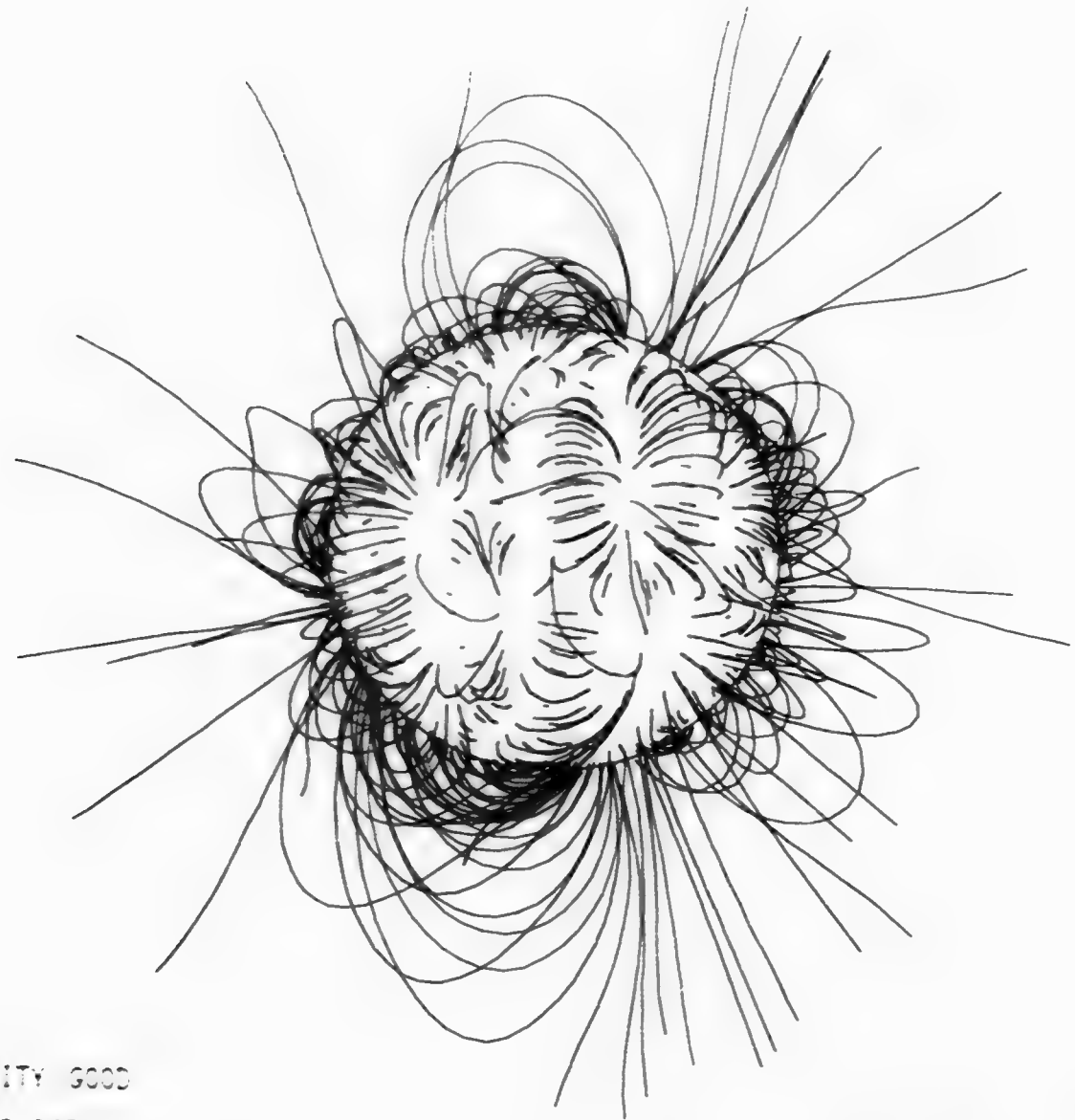
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N

E

W

S



QUALITY GOOD

POLES DIRECT

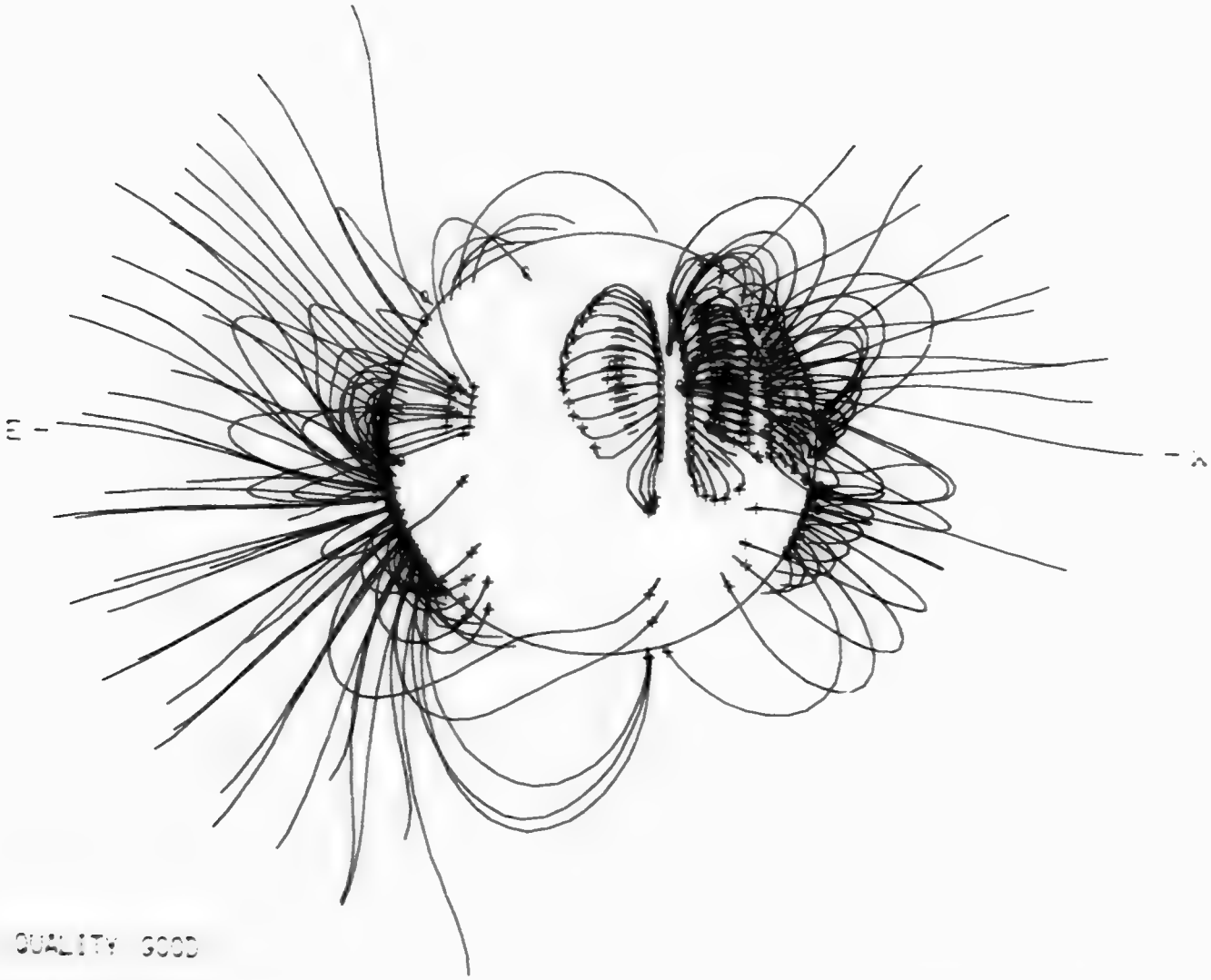
DATA WINDOW 1561.00

ROT. 1561 LONG. 221°

21.0 MAY 1970

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N



QUALITY GOOD

POLES DIRECT

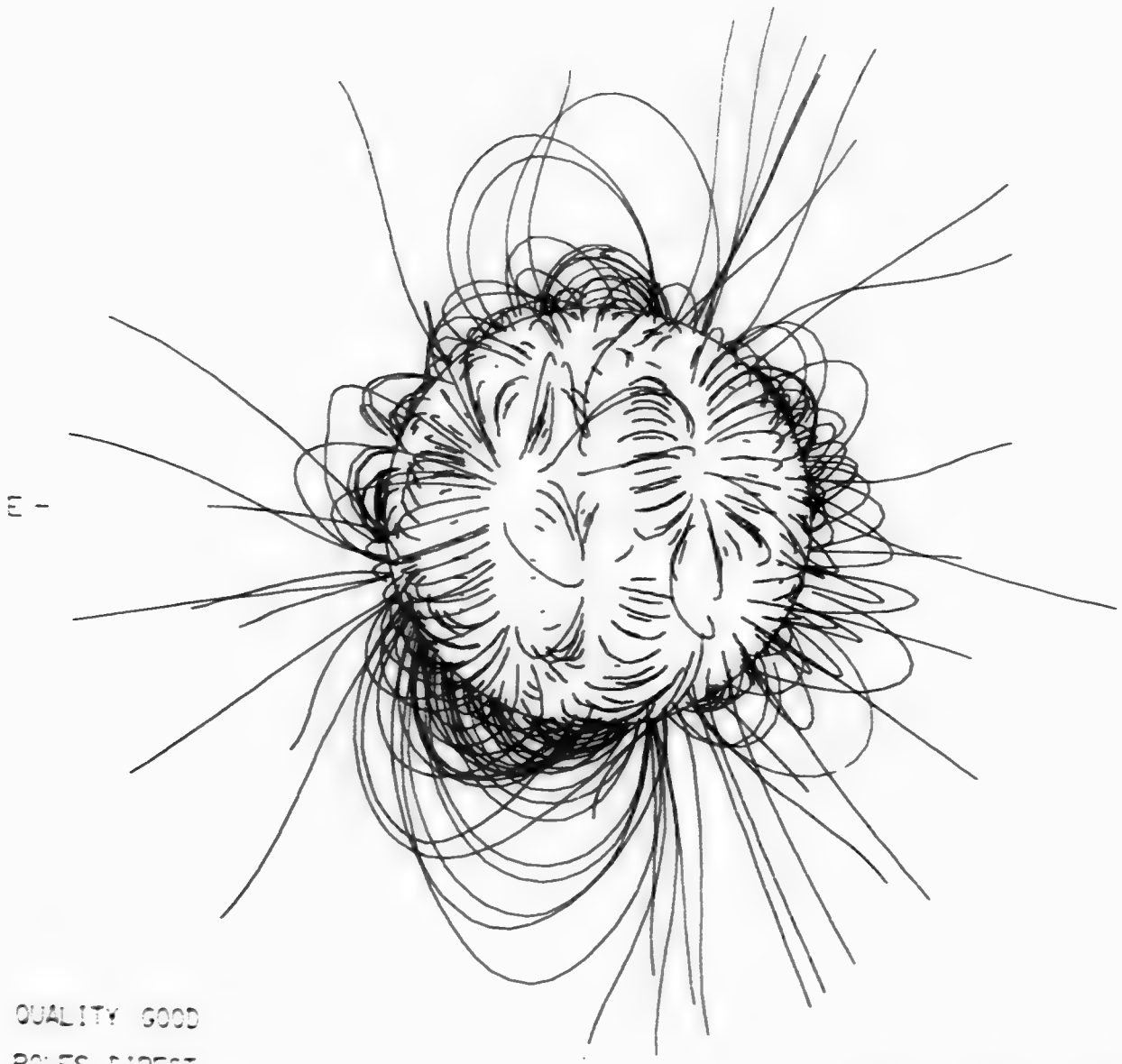
DATA WINDOW 1561.00

S

ROT. 1561 LONG. 221°

21.0 MAY 1970

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



QUALITY GOOD

POLES DIRECT

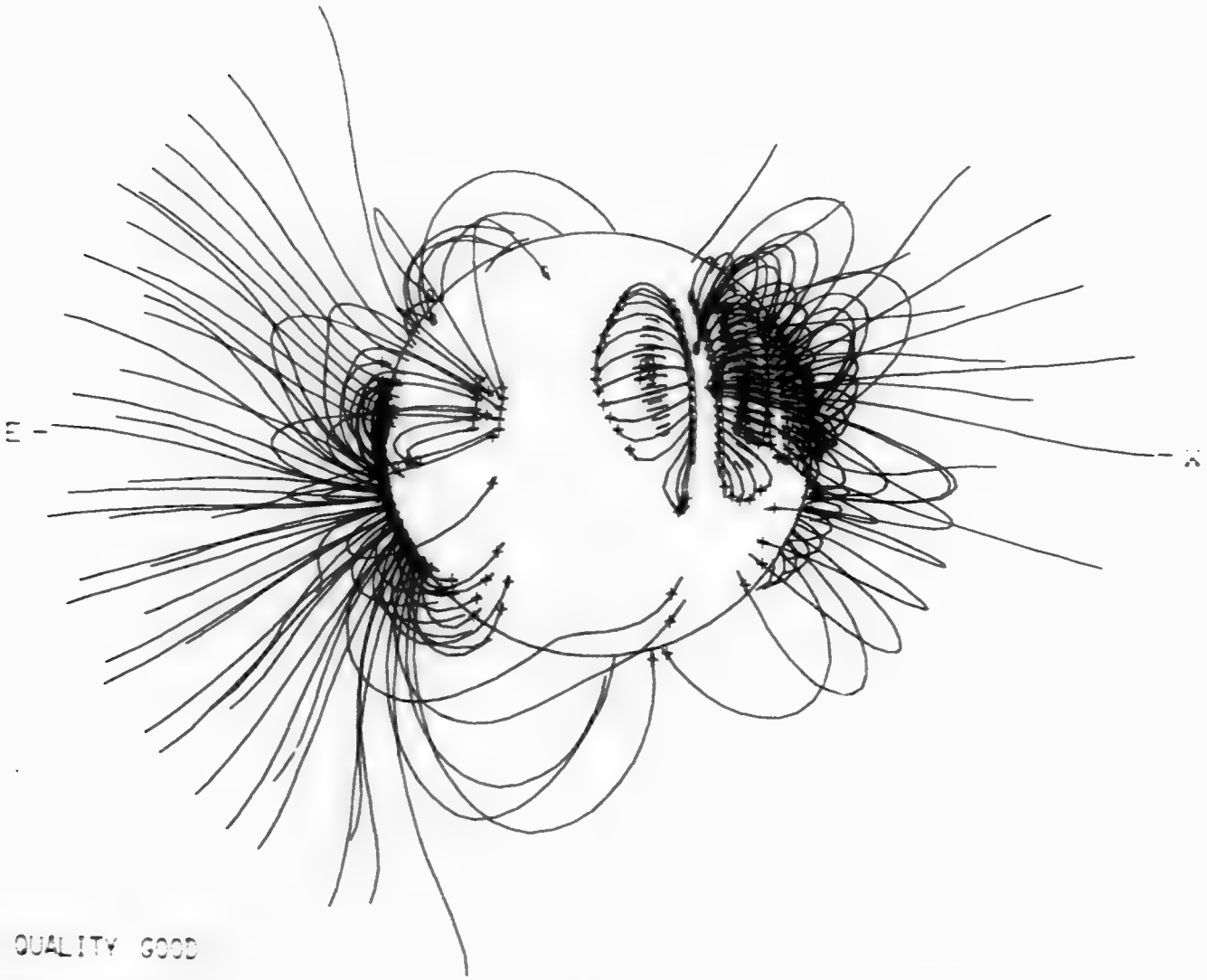
DATA WINDOW 1561.00

ROT. 1561 LONG. 21°

21.8 MAY 1970

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N



S

QUALITY GOOD

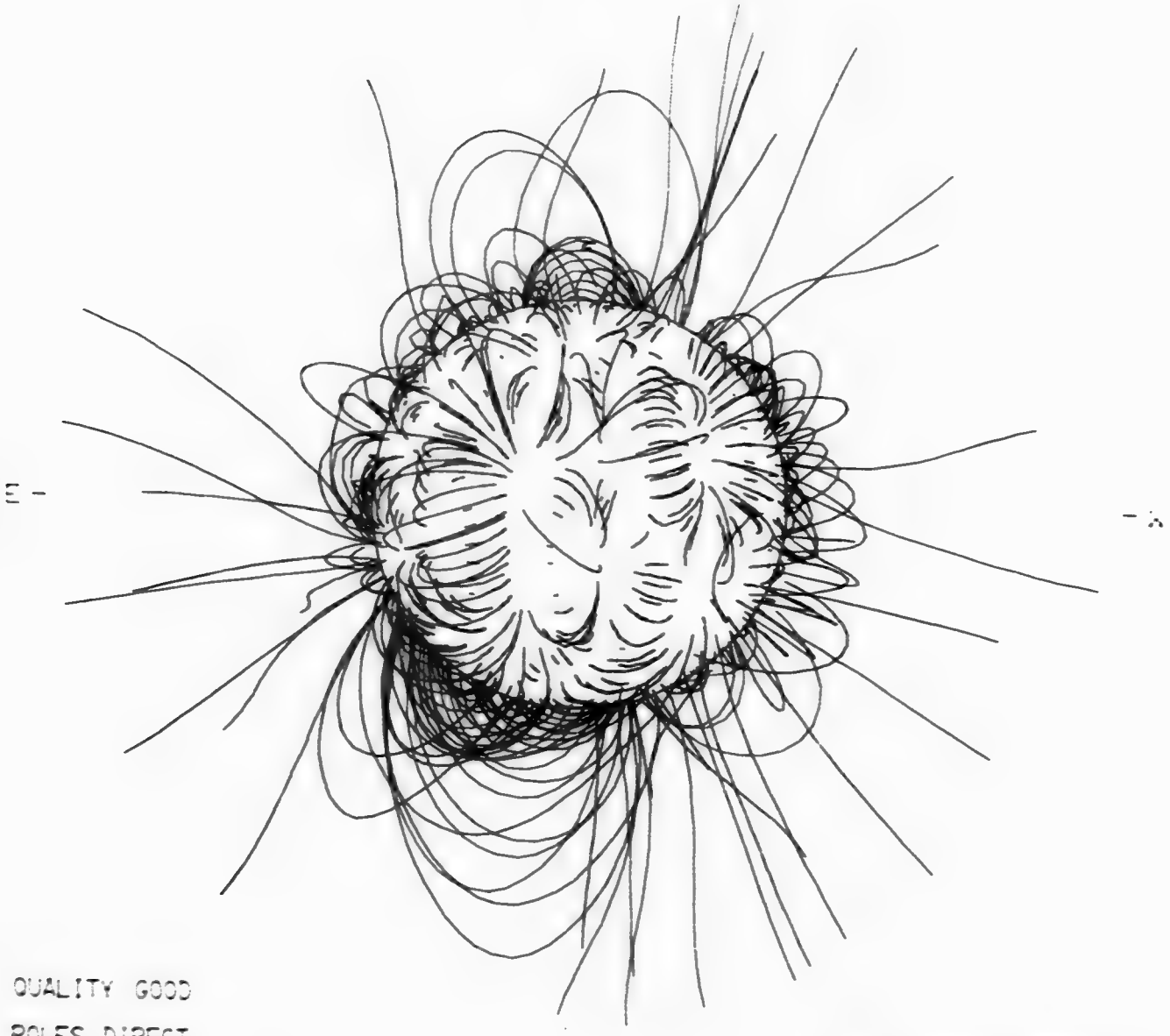
POLES DIRECT

DATA WINDOW 1561.00

ROT. 1561 LONG. 21°

21.8 MAY 1973

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



QUALITY GOOD

POLES DIRECT

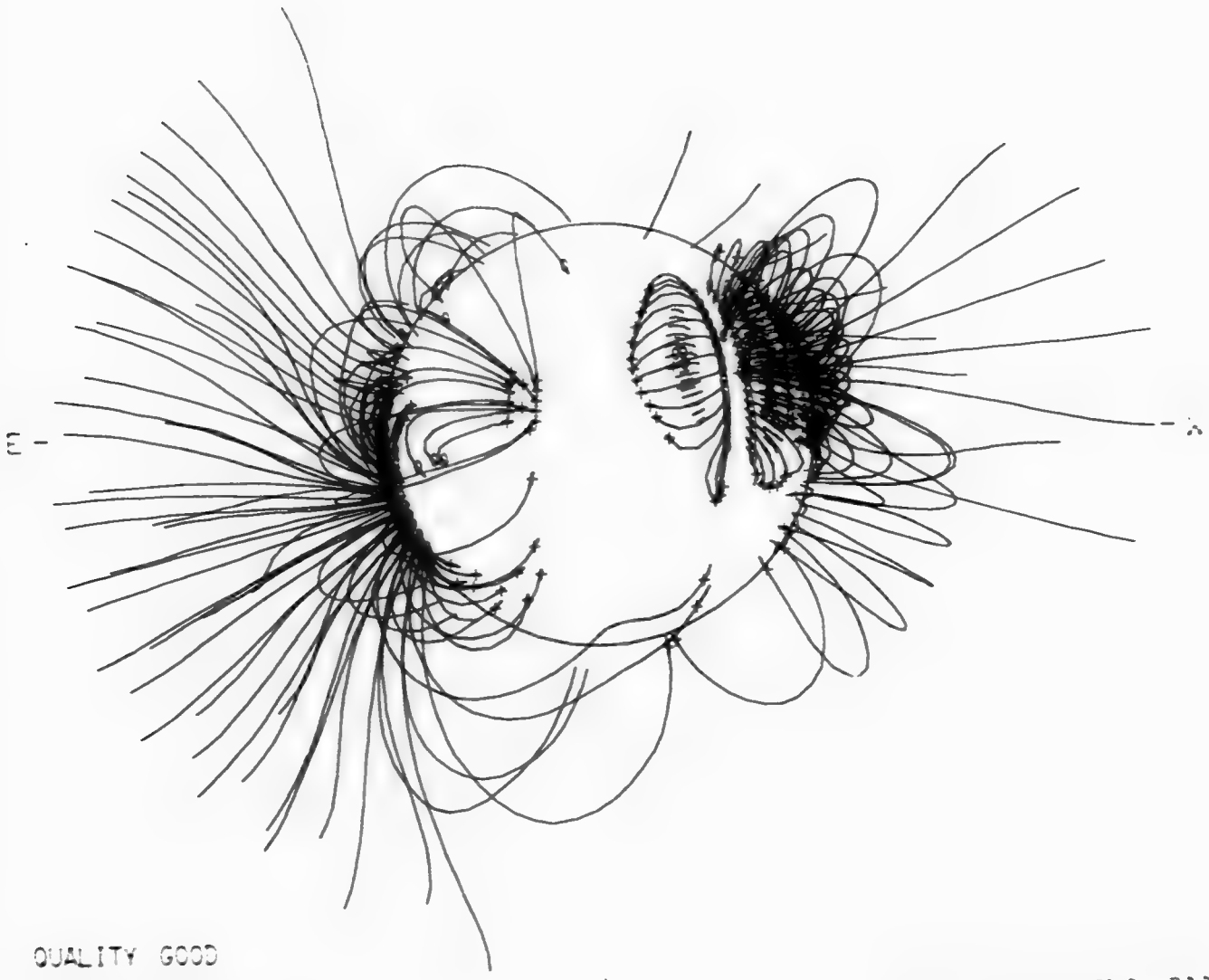
DATA WINDOW 1561.00

ROT. 1561 LONG. 300°

22.5 MAY 1970

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N



S

QUALITY GOOD

POLES DIRECT

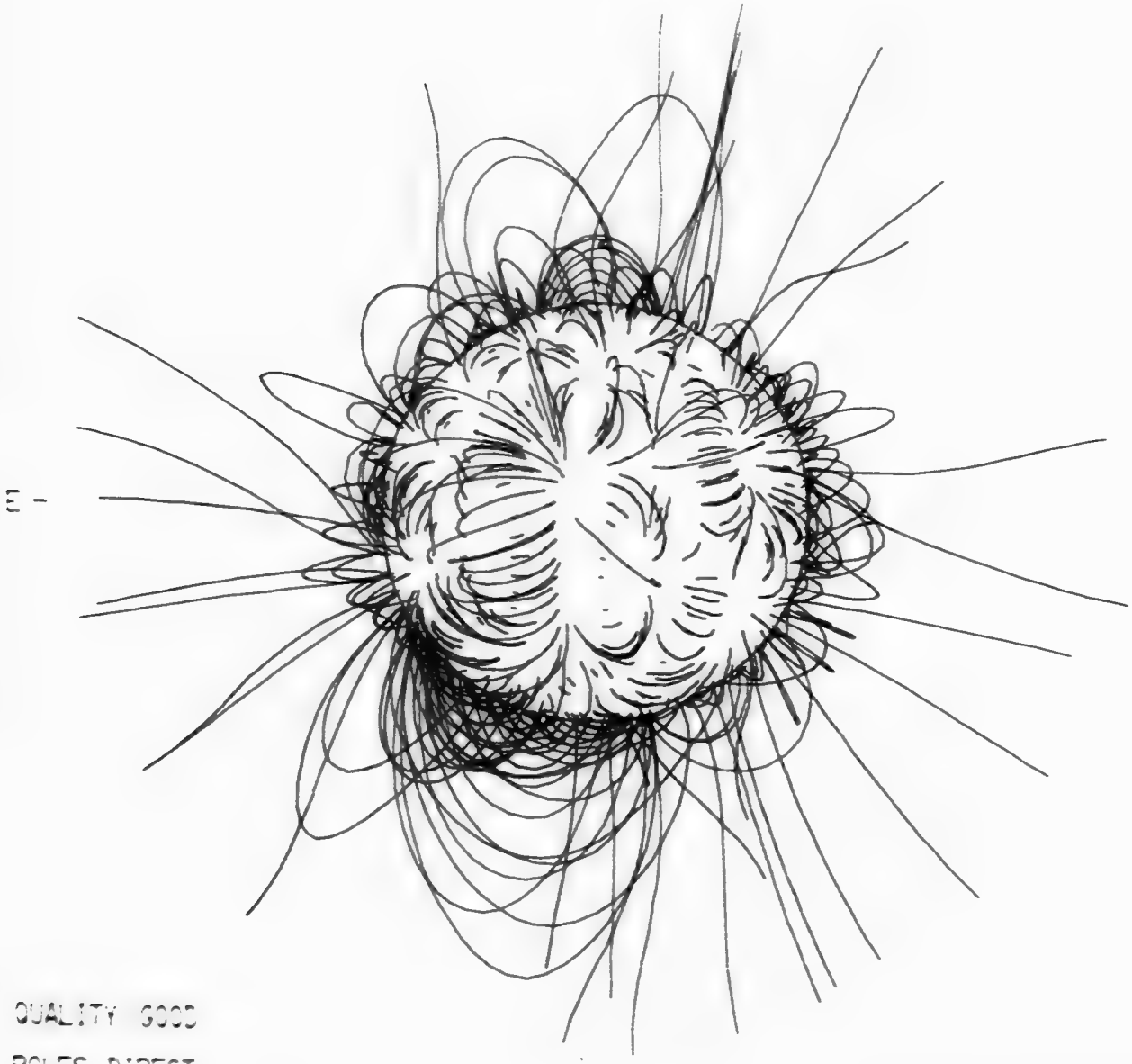
DATA WINDOW 1561.00

ROT. 1561 LONG. 2[illegible]°

22.5 MA• 197[illegible]

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N



E

S

QUALITY GOOD

POLES DIRECT

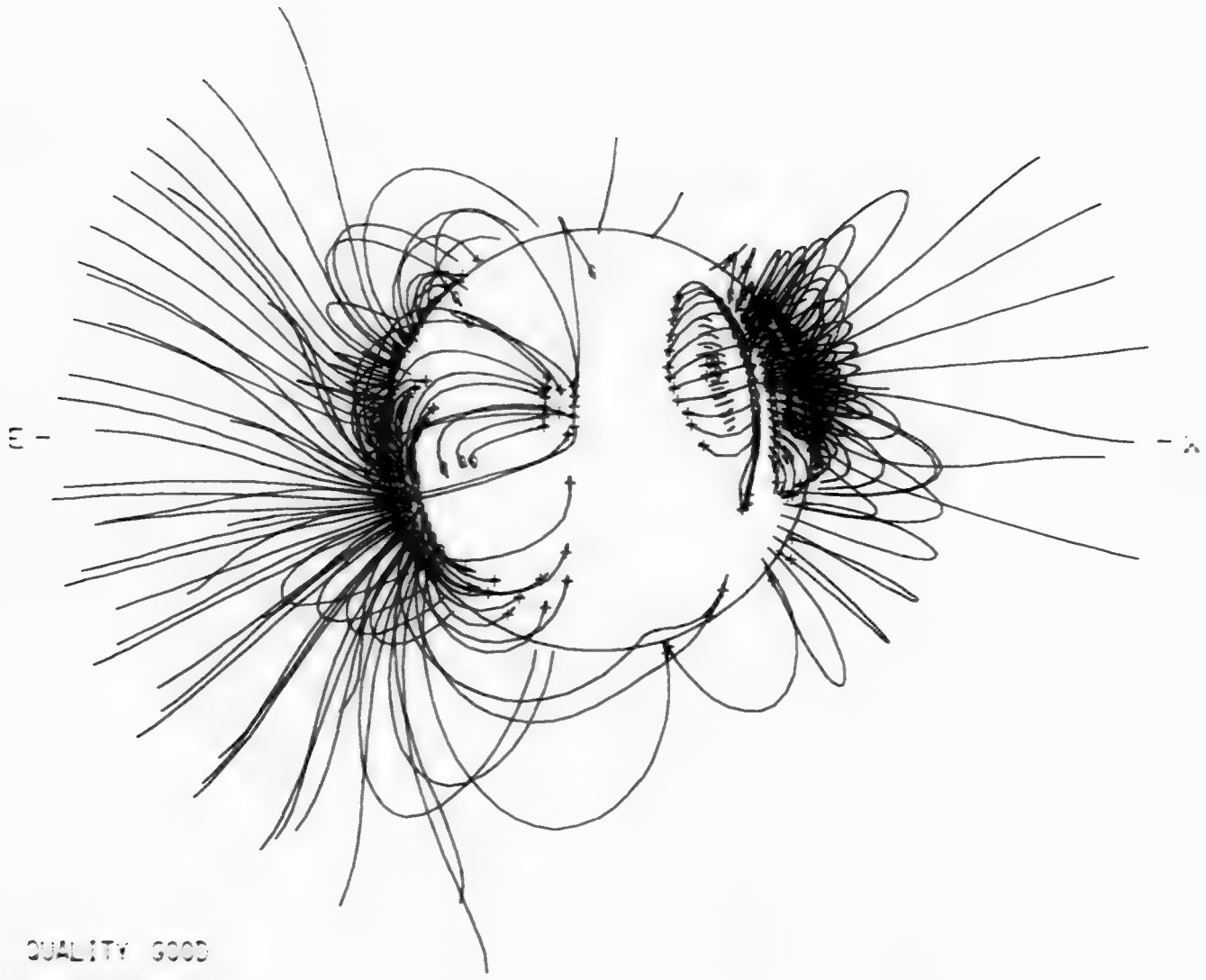
DATA WINDOW 1561.00

ROT. 1561 LONG. 19[illegible]°

23.3 MAY 197[illegible]

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N



QUALITY GOOD

POLES DIRECT

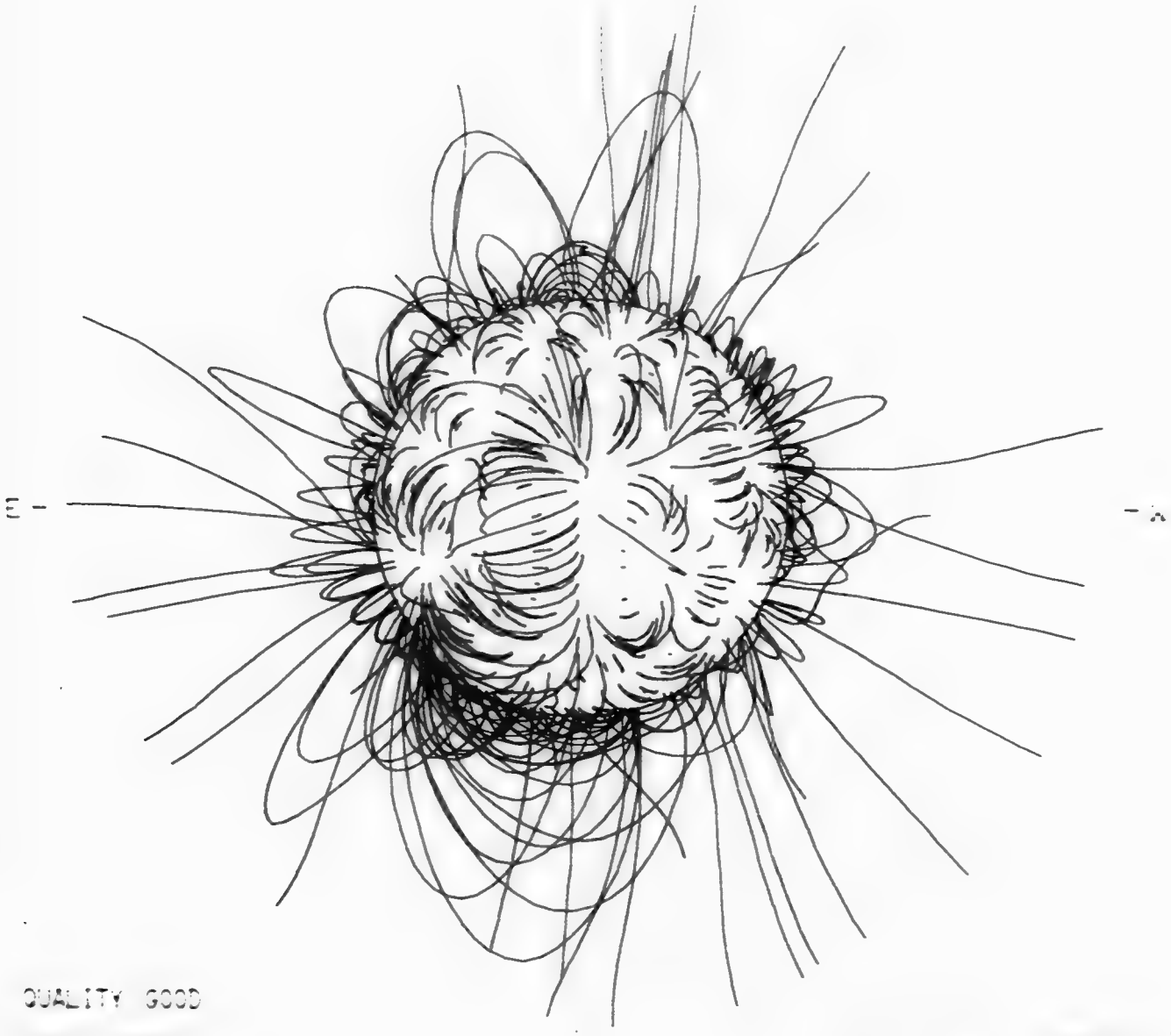
DATA WINDOW 1561.00

S

ROT. 1561 LONG. 19[illegible]°

23.5 MAY 197[illegible]

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



QUALITY GOOD

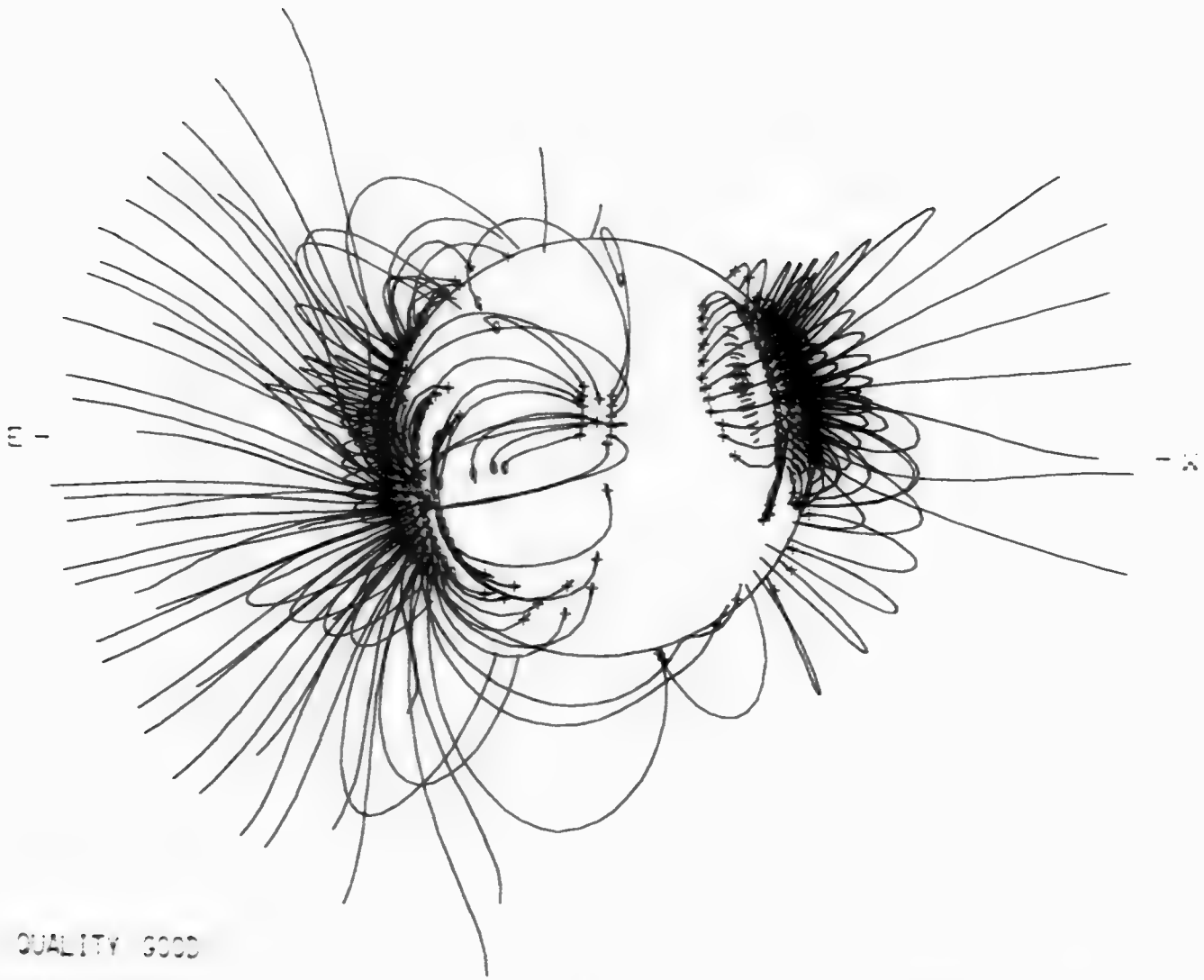
POLES DIRECT

DATA WINDOW 1561.00

ROT. 1561 LONG. 181°

24.1 MAY 1970

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



QUALITY GOOD

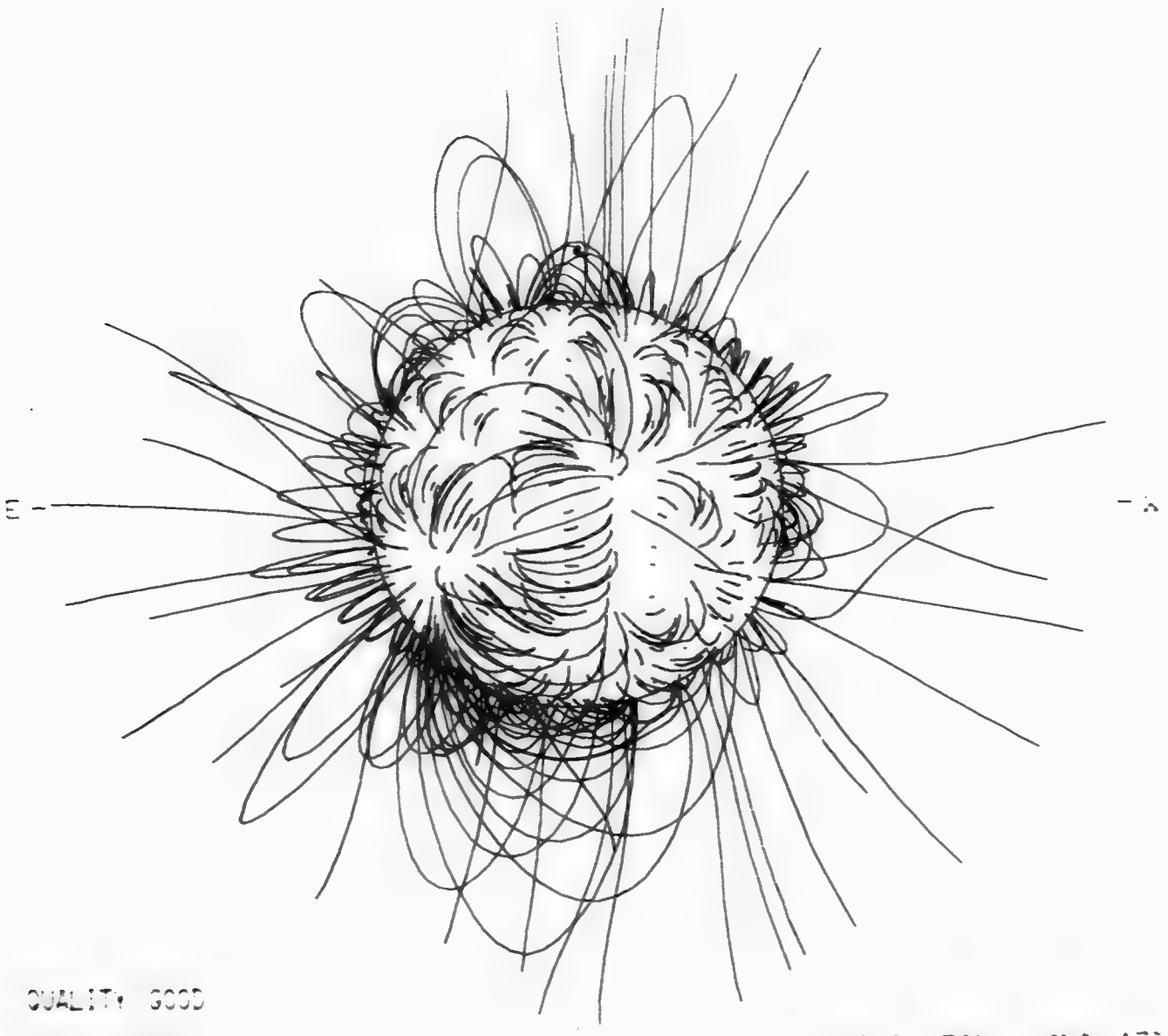
POLES DIRECT

DATA WINDOW 1561.00

ROT. 1561 LONG. 181°

24.1 MAY 1970

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



QUALITY GOOD

POLES DIRECT

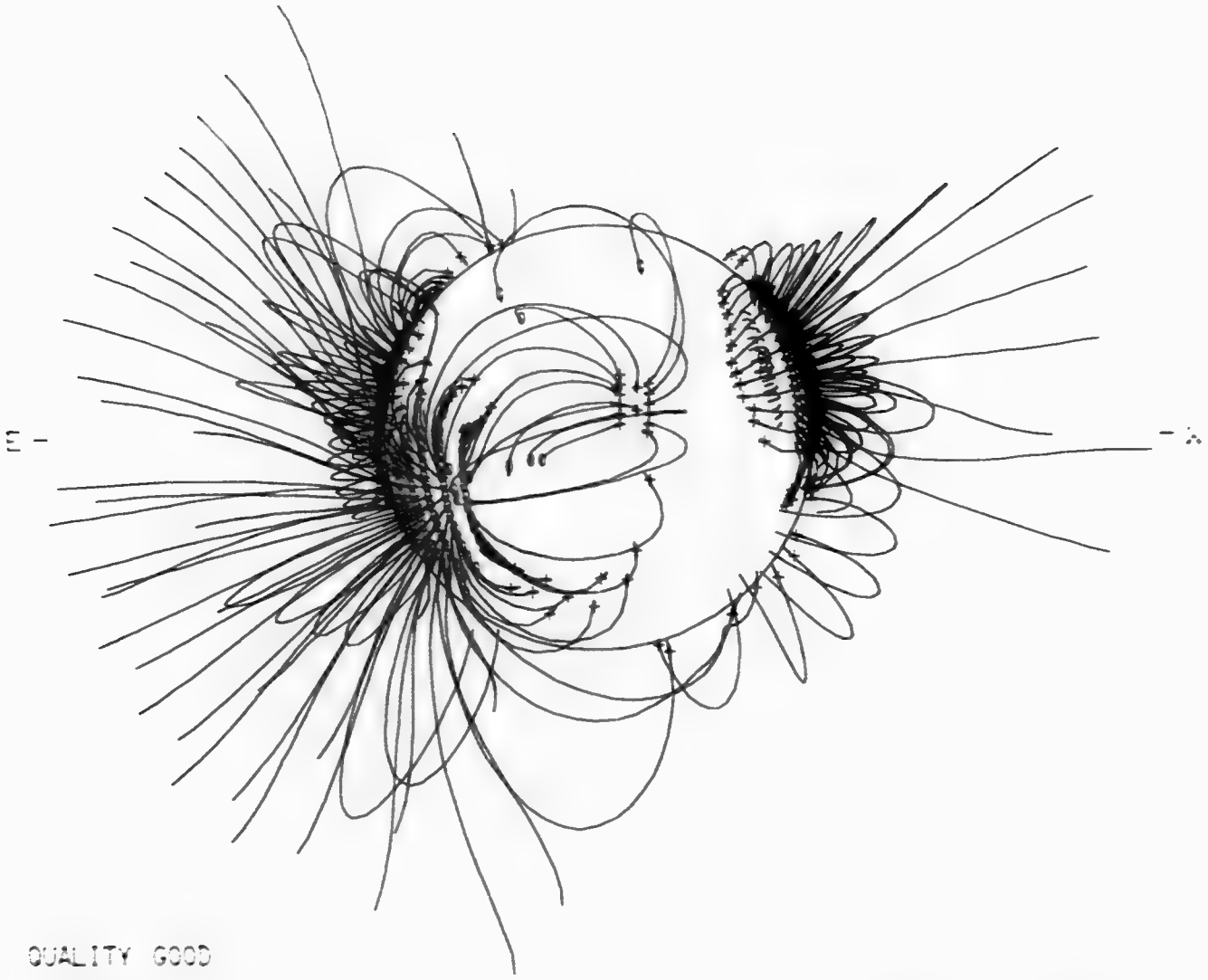
DATA WINDOW 1561.00

ROT. 1561 LONG. 17°

24.8 MAY 1970

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N



S

QUALITY GOOD

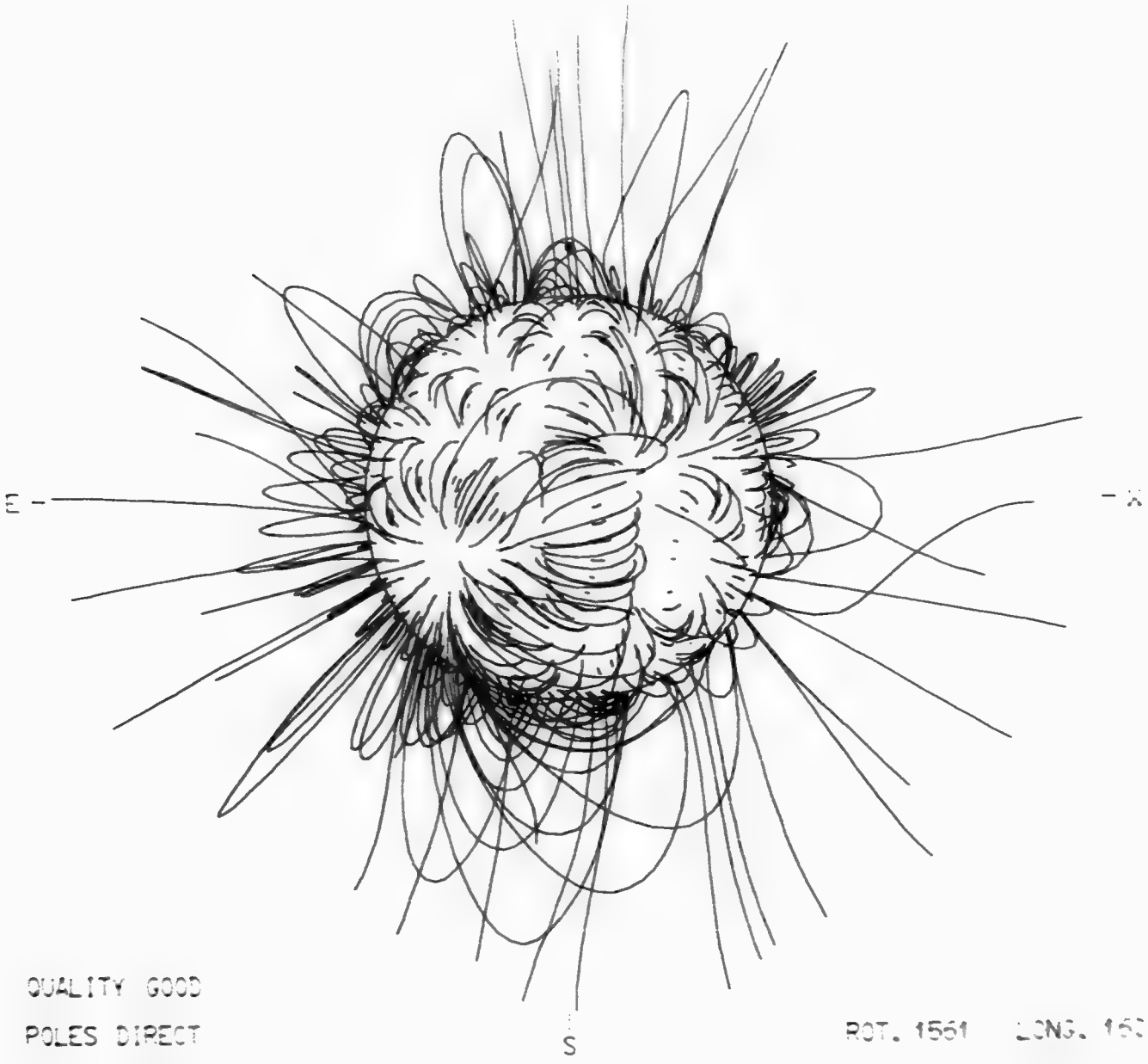
POLES DIRECT

DATA WINDOW 1561.00

ROT. 1561 LONG. 17°

24.8 MAY 1970

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



QUALITY GOOD

POLES DIRECT

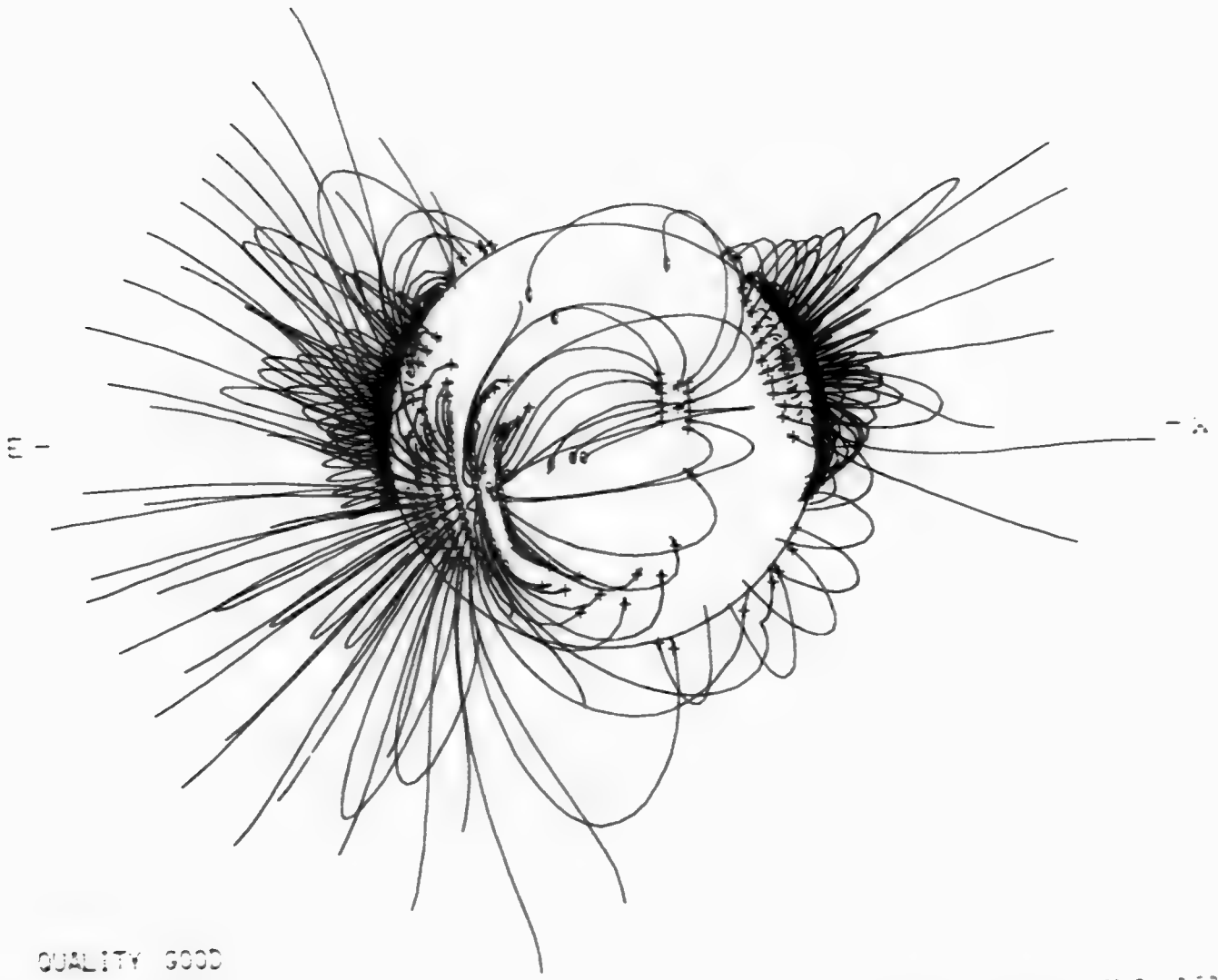
DATA WINDOW 1561.00

ROT. 1561 LONG. 16[illegible]

25.6 MAY 197[illegible]

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N



S

QUALITY GOOD

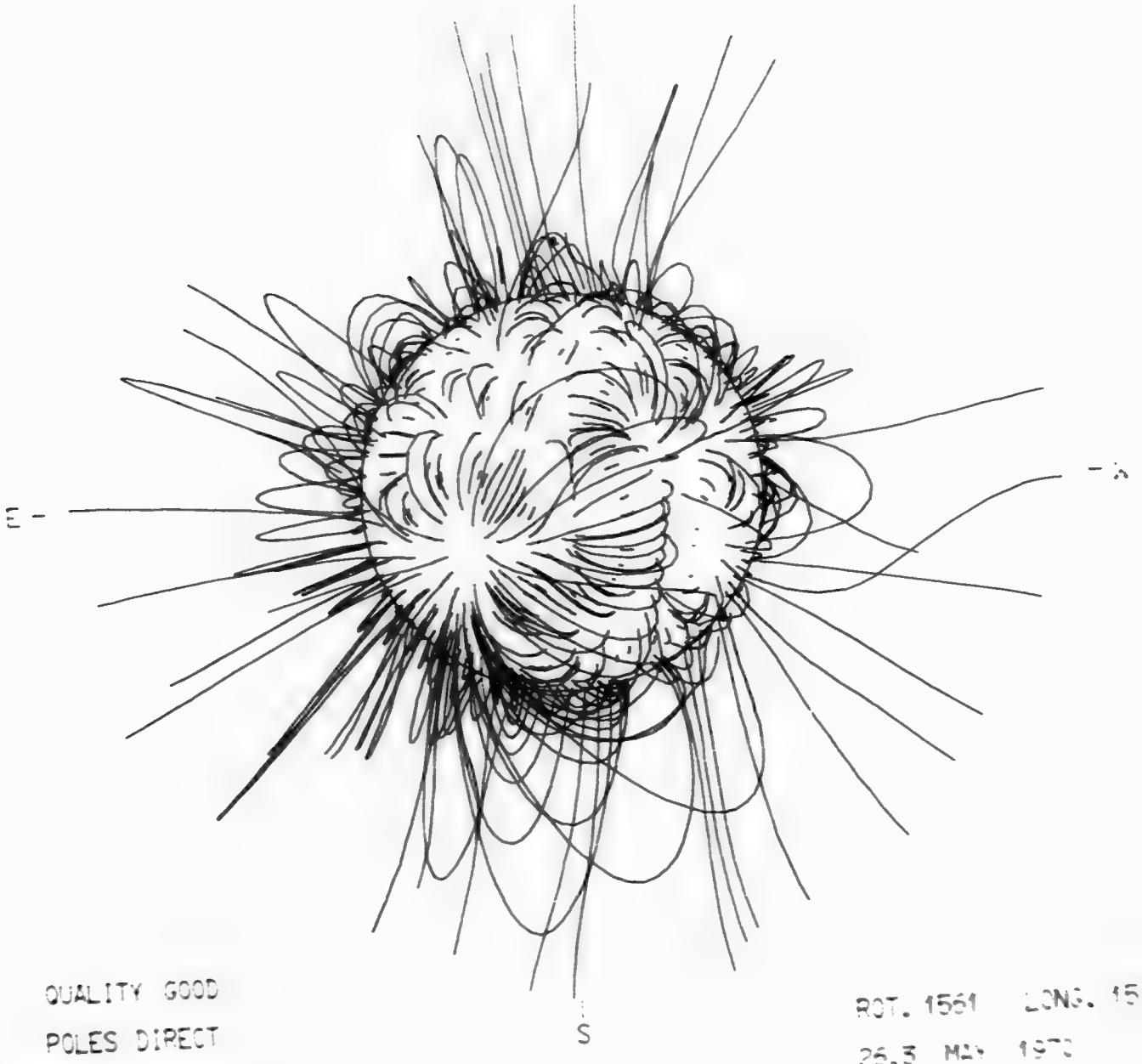
POLES DIRECT

DATA WINDOW 1561.00

ROT. 1561 LONG. 160°

25.6 MAY 1970

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



QUALITY GOOD

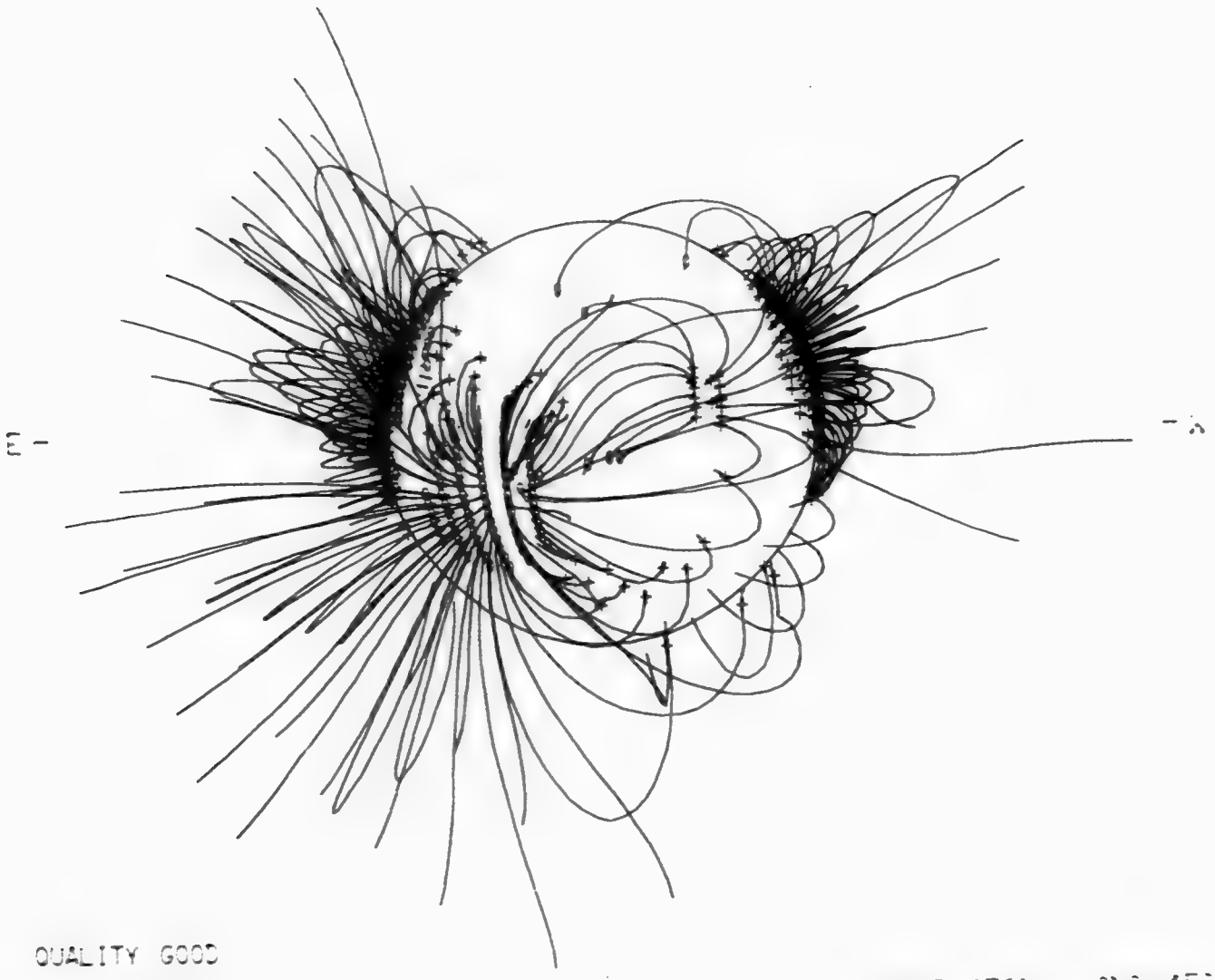
POLES DIRECT

DATA WINDOW 1561.00

ROT. 1561 LONG. 15[illegible]°

26.3 MAY 197[illegible]

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



QUALITY GOOD

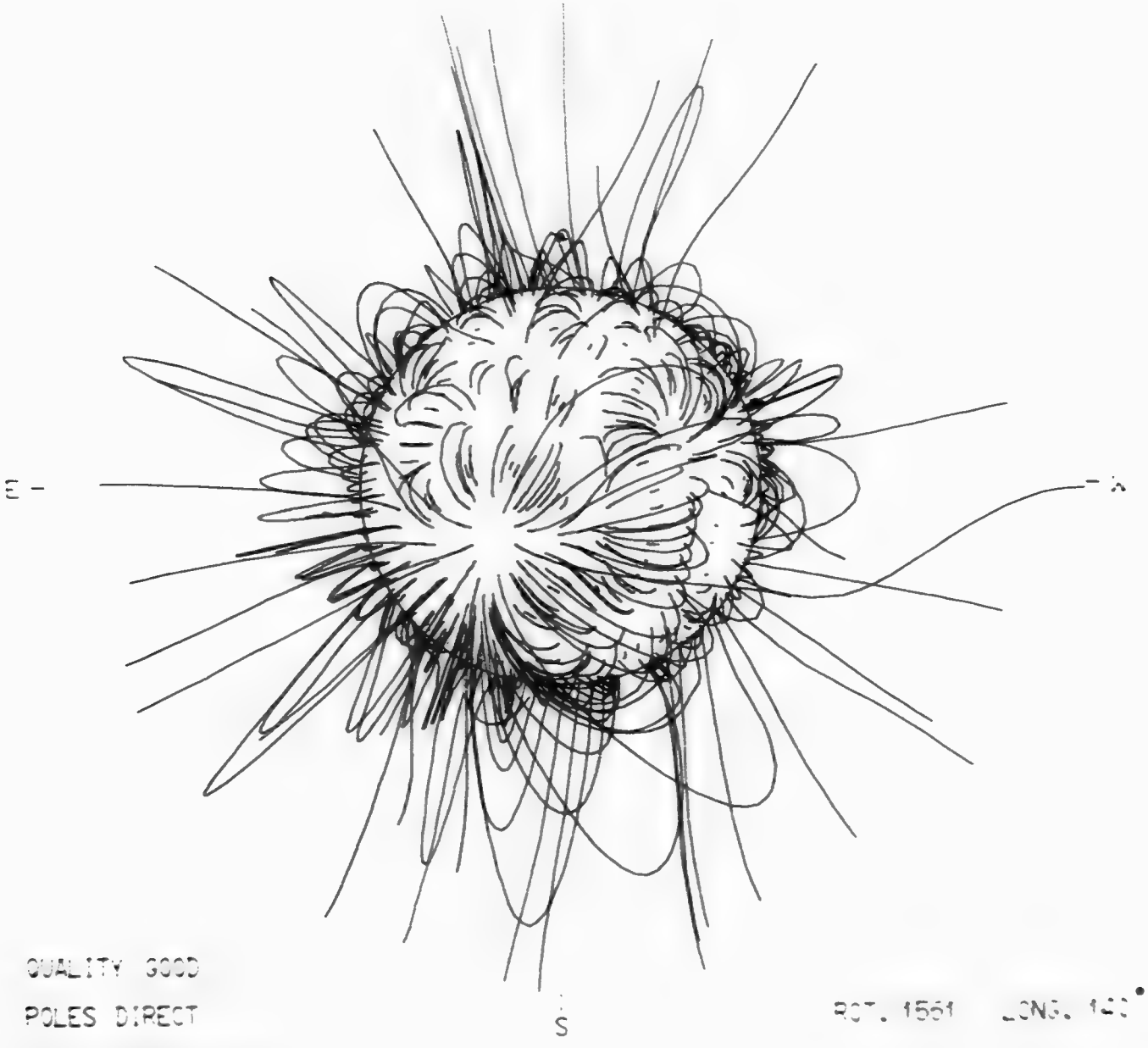
POLES DIRECT

DATA WINDOW 1561.00

ROT. 1561 LONG. 15[illegible]°

26.3 MAY 197[illegible]

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



QUALITY GOOD

POLES DIRECT

DATA WINDOW 1561.00

ROT. 1561 LONG. 140°

27.1 MAY 1970

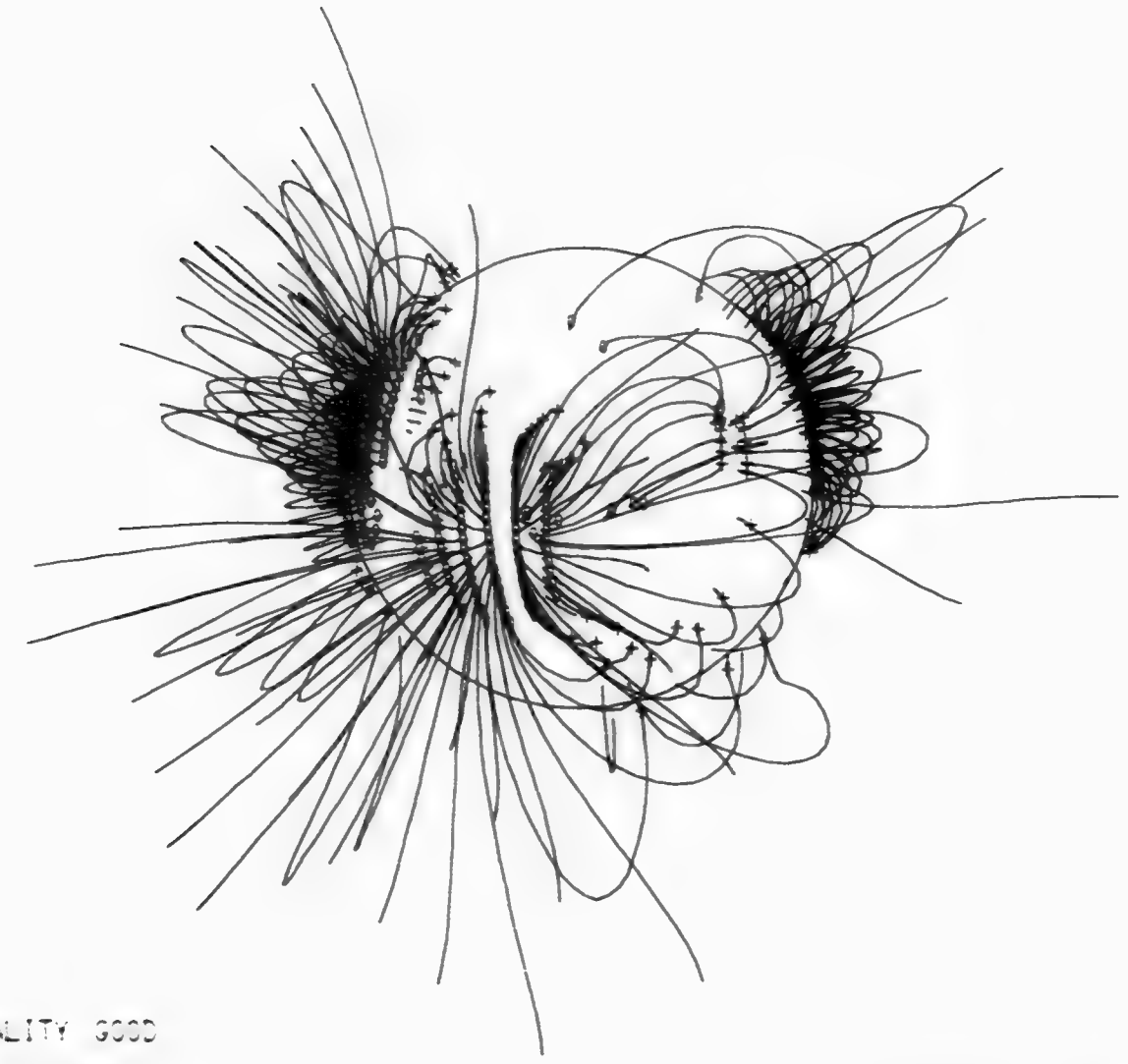
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N

E

W

S



QUALITY GOOD

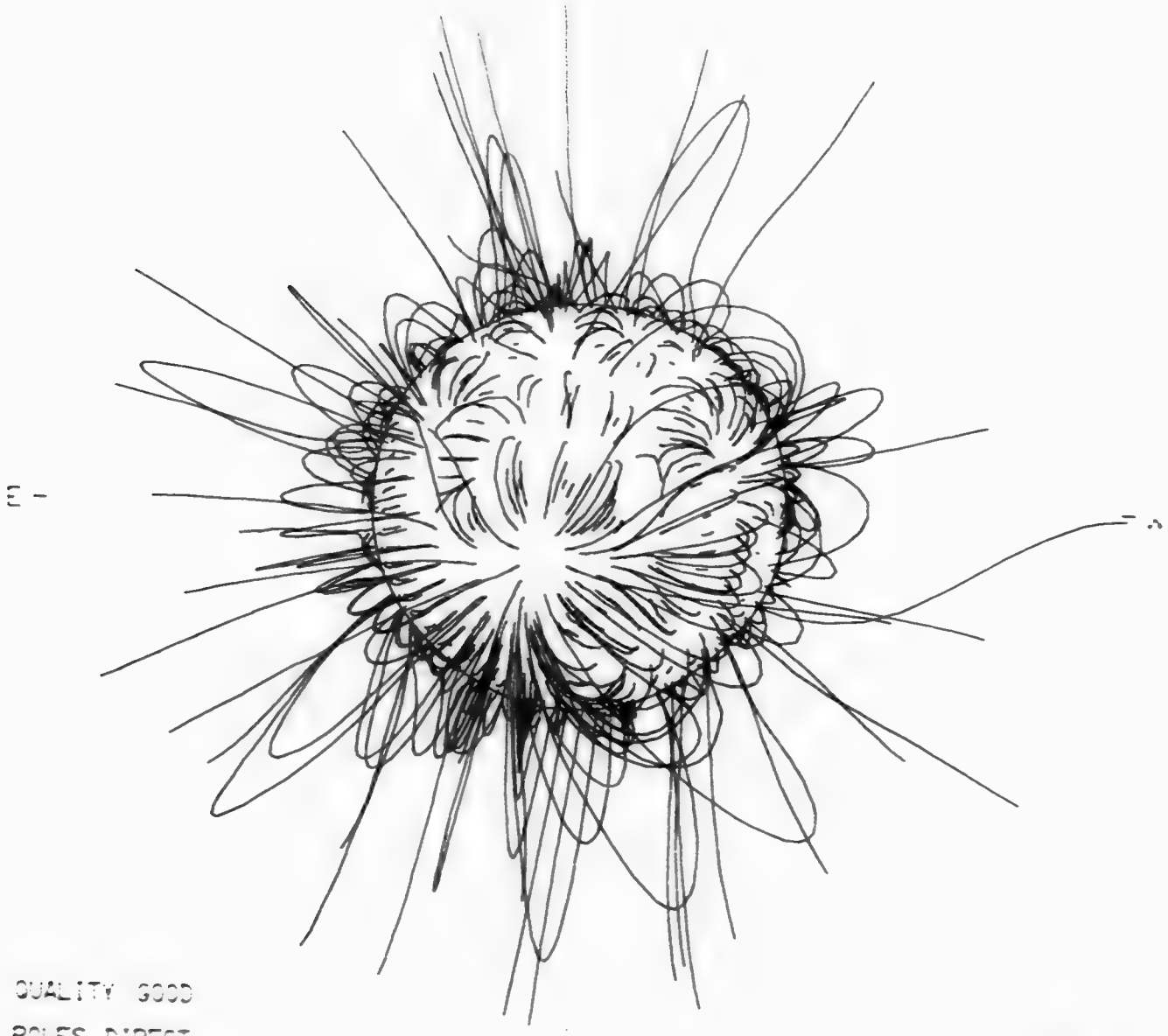
POLES DIRECT

DATA WINDOW 1561.00

ROT. 1561 LONG. 122°

27.1 MAY 1970

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

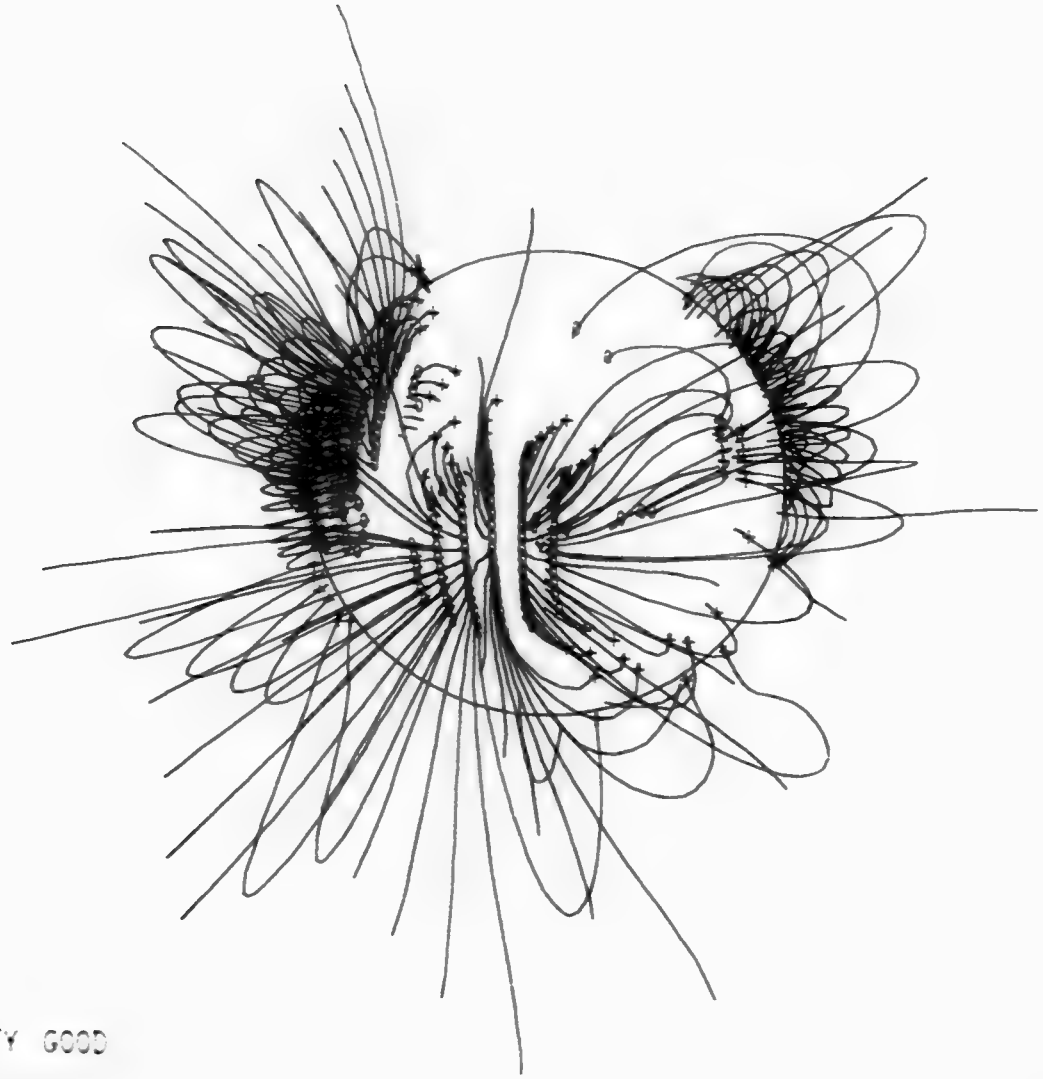


QUALITY GOOD
POLES DIRECT
DATA WINDOW 1561.00

ROT. 1561 LONG. 15[illegible]°
27.8 MAY 197[illegible]

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N



E

A

S

QUALITY GOOD

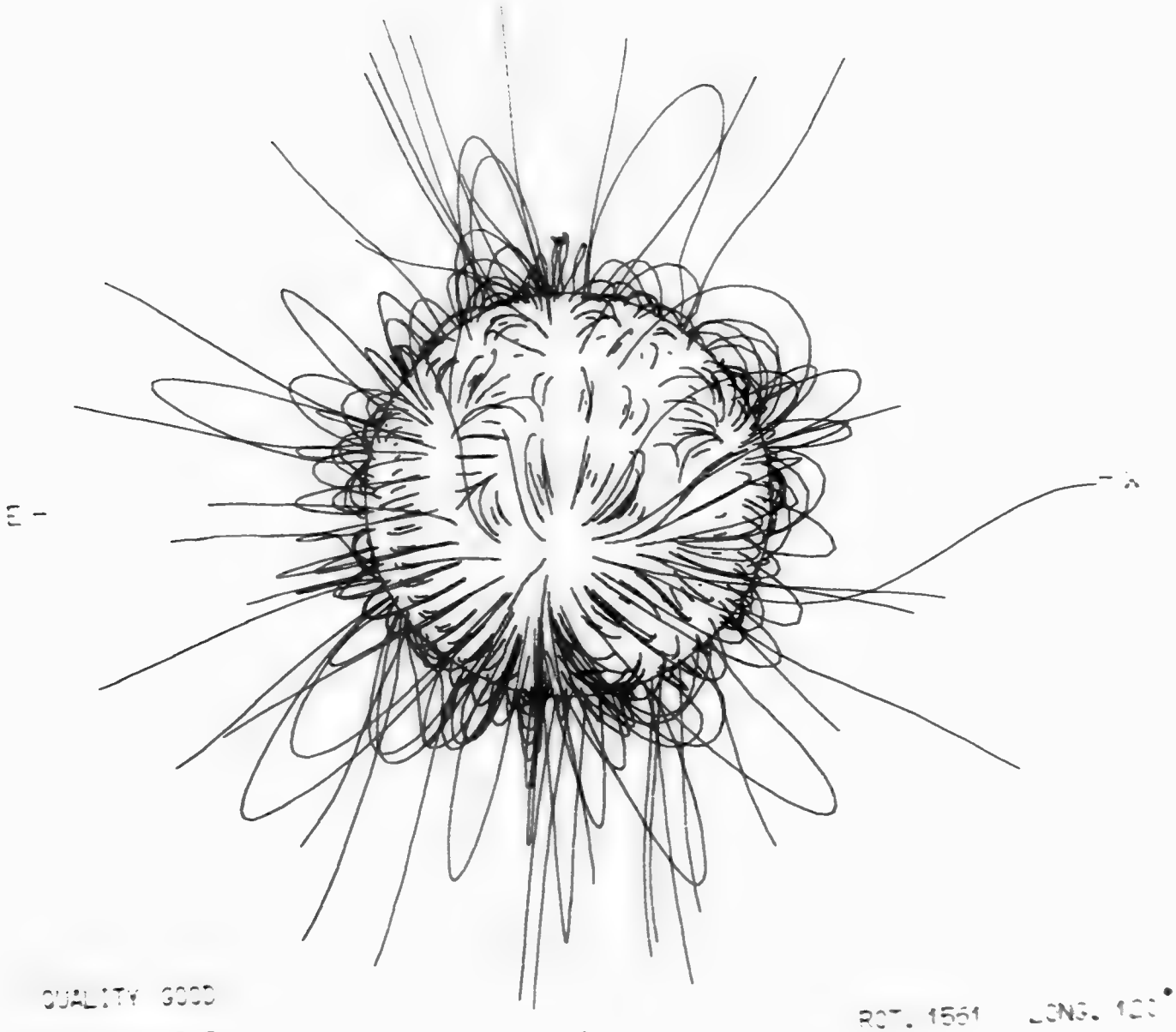
POLES DIRECT

DATA WINDOW 1561.00

ROT. 1561 LONG. 15[illegible]°

27.8 MA. 197[illegible]

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



QUALITY GOOD

POLES DIRECT

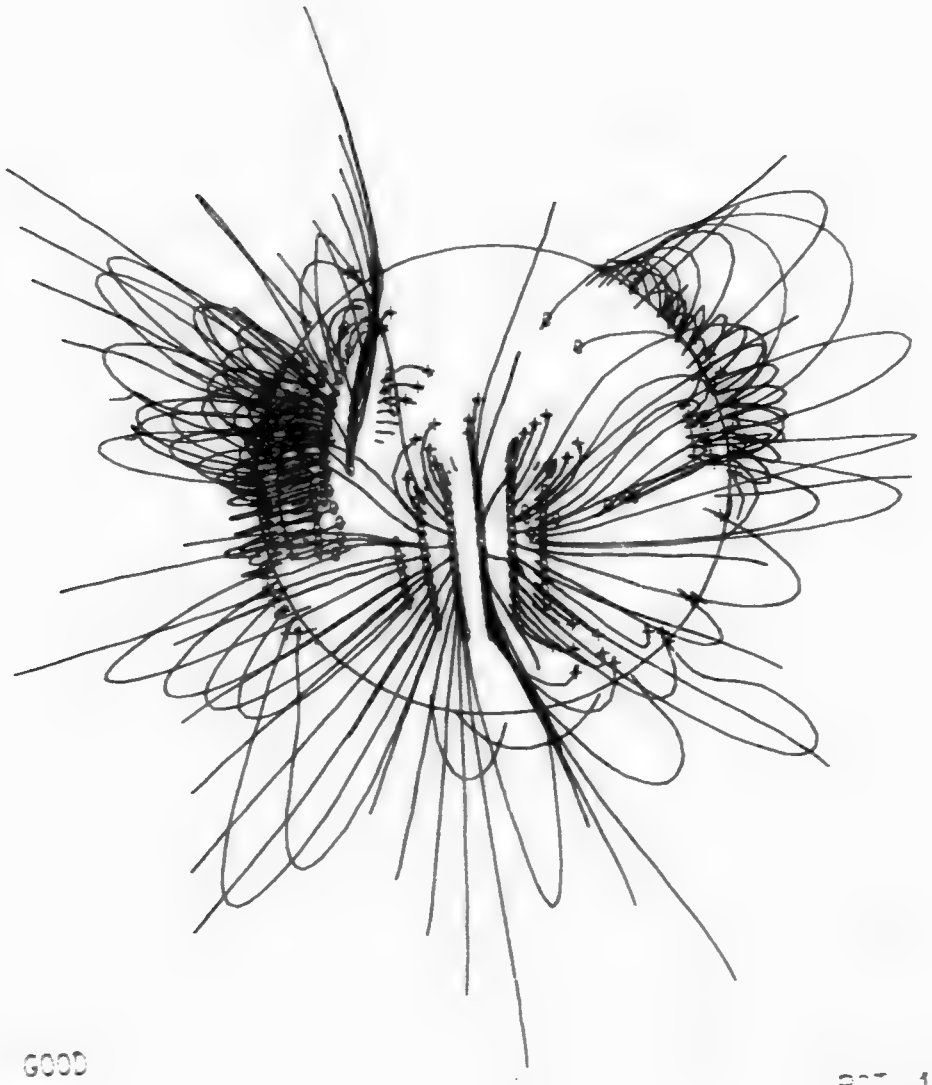
DATA WINDOW 1561.00

ROT. 1561 LONG. 12[illegible]°

28.6 MAY 197[illegible]

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N



E

A

S

QUALITY GOOD

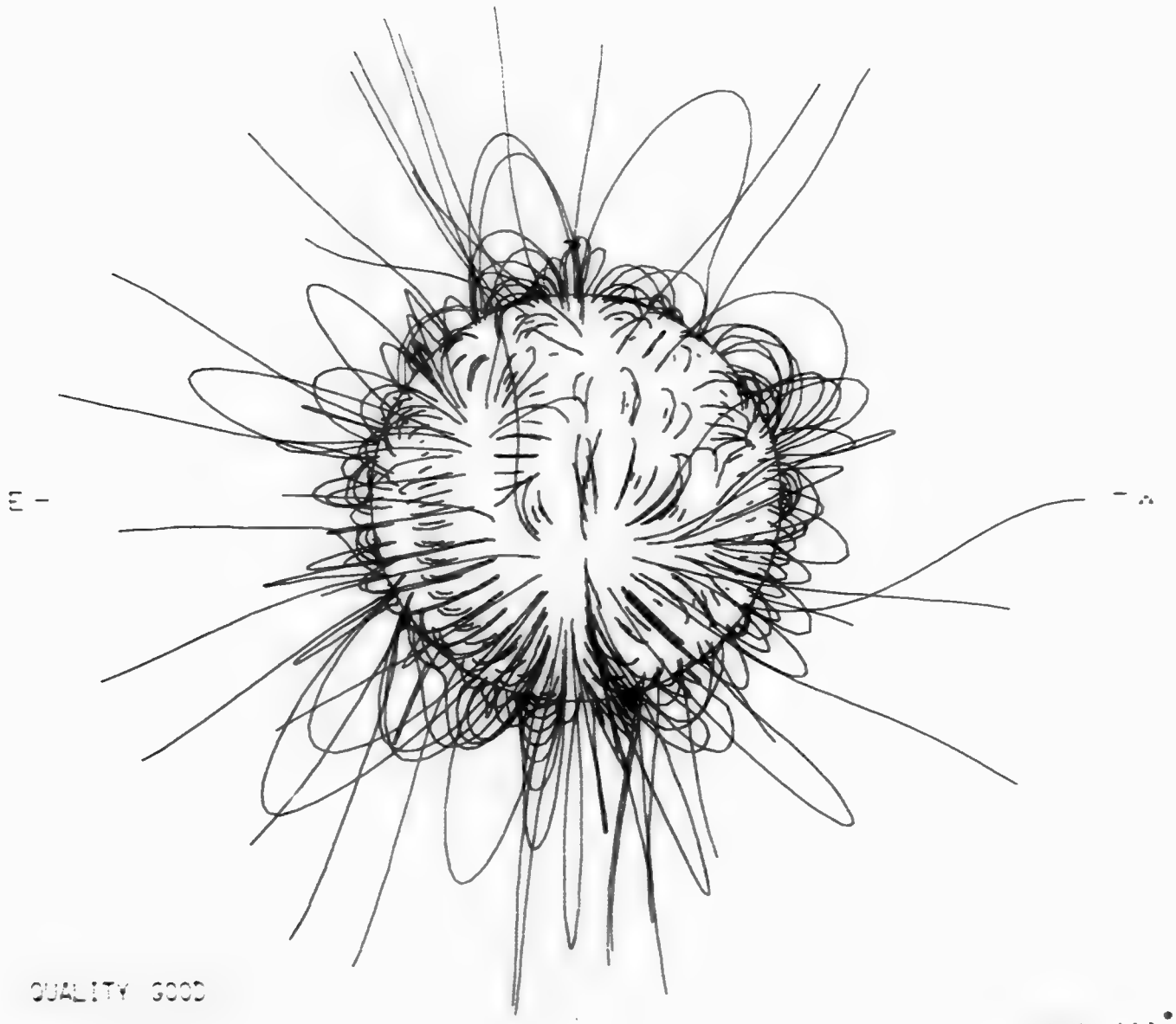
POLES DIRECT

DATA WINDOW 1561.00

ROT. 1561 LONG. 121°

28.6 MAY 1971

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



QUALITY GOOD

POLES DIRECT

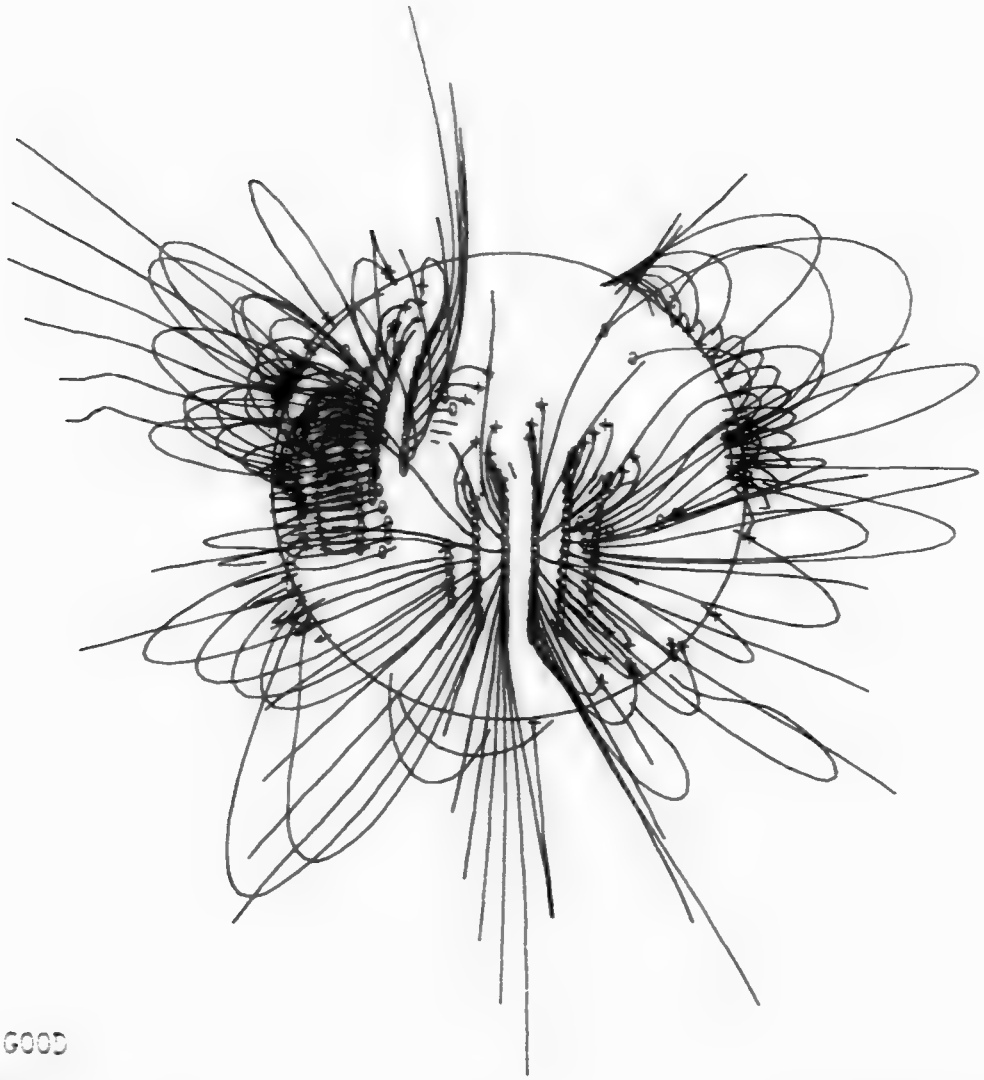
DATA WINDOW 1561.00

ROT. 1561 LONG. 11°

29.4 MAY 1970

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N



E

A

S

QUALITY GOOD

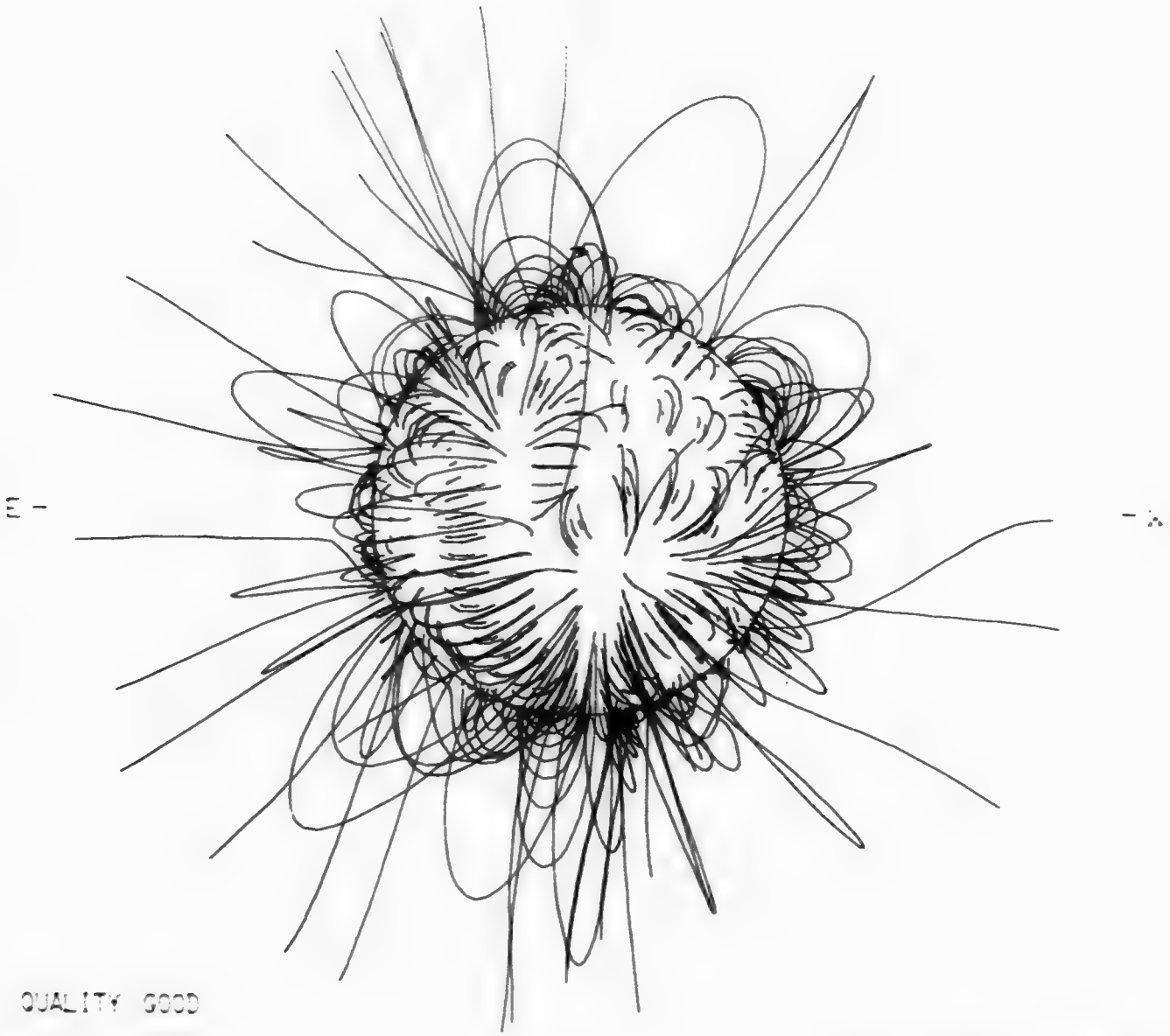
POLES DIRECT

DATA WINDOW 1561.00

ROT. 1561 LONG. 11°

29.2 MAY 197

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



QUALITY GOOD

POLES DIRECT

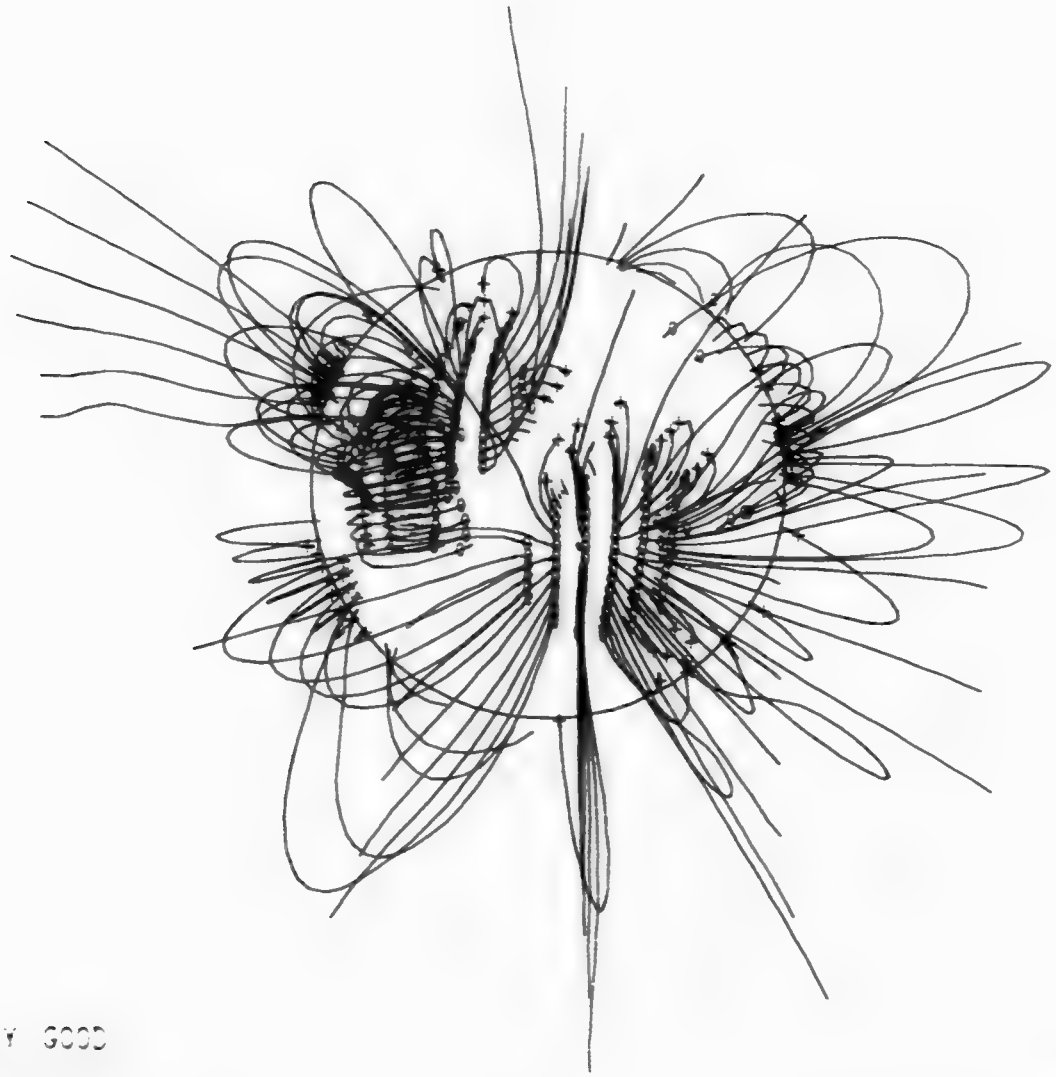
DATA WINDOW 1561.00

ROT. 1561 LONG. 1[illegible]°

30.1 MAY 197[illegible]

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N



E

A

S

QUALITY GOOD

POLES DIRECT

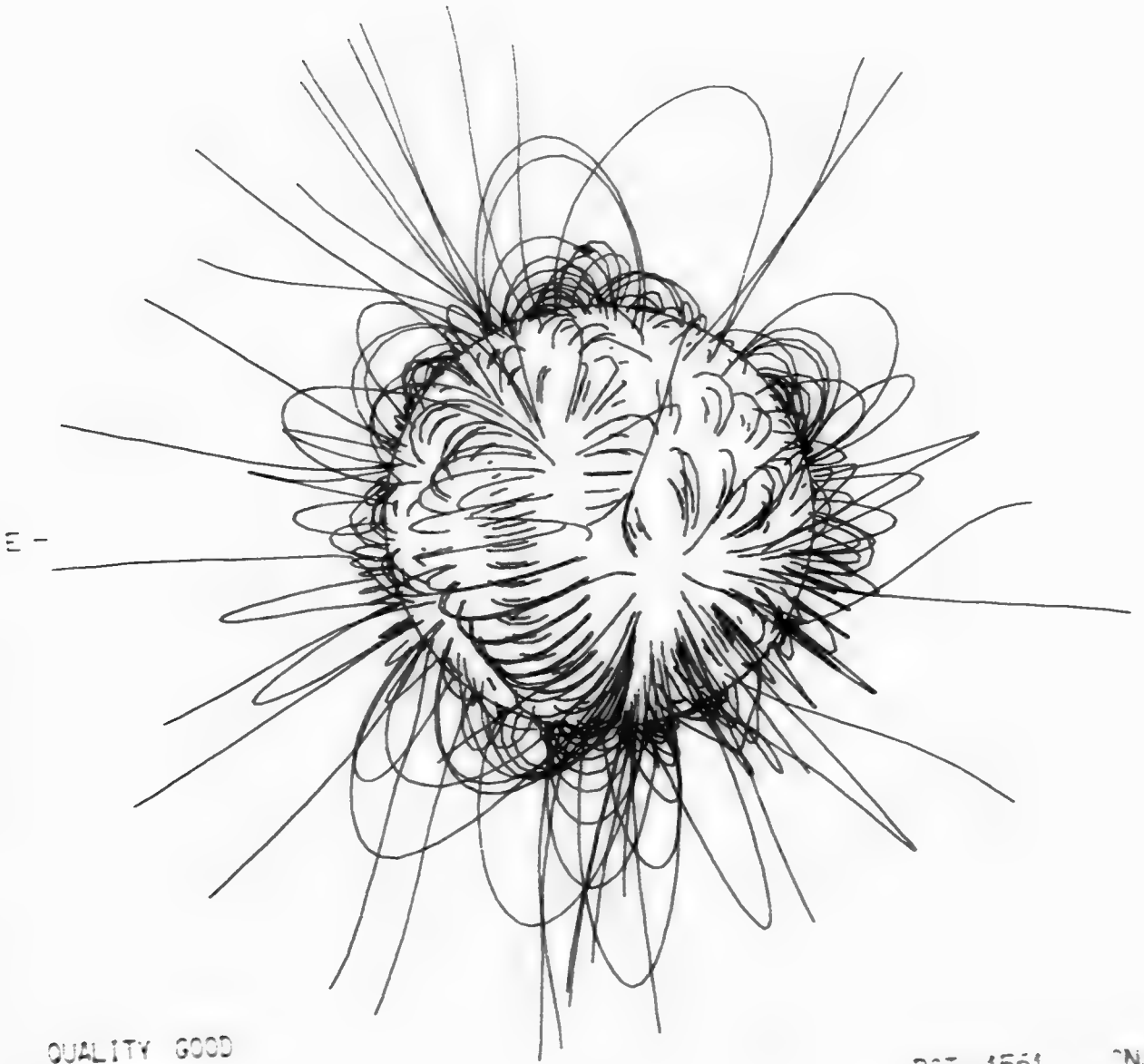
DATA WINDOW 1561.00

ROT. 1561 LONG. 1[illegible]°

30.1 MHz 197[illegible]

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N



E

A

S

QUALITY GOOD

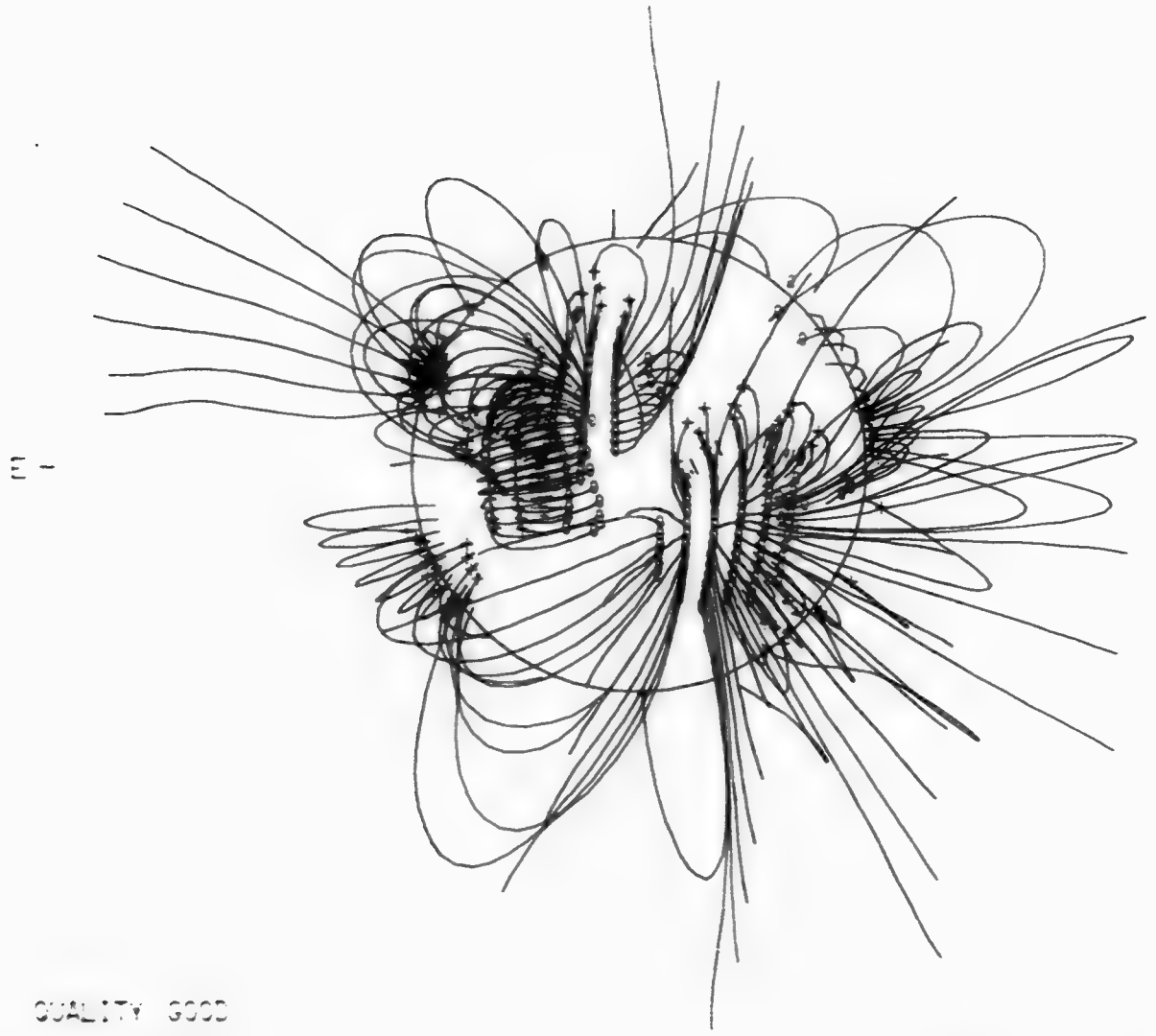
POLES DIRECT

DATA WINDOW 1561.00

ROT. 1561 LONG. 90°

30.9 MAY 1970

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



QUALITY GOOD

POLES DIRECT

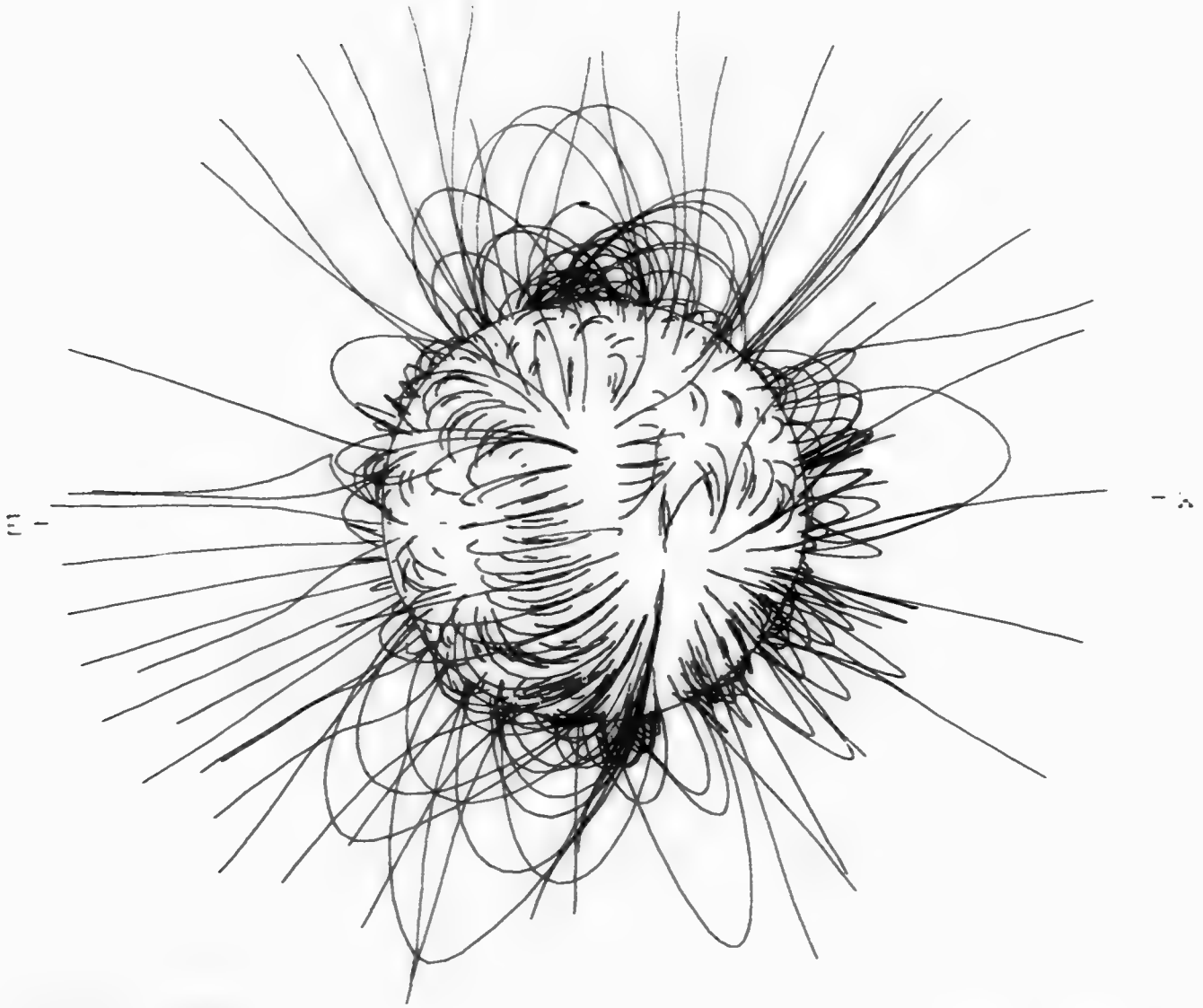
DATA WINDOW 1561.00

ROT. 1561 LONG. 90°

30.9 MAY 1970

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N



E

A

S

QUALITY GOOD

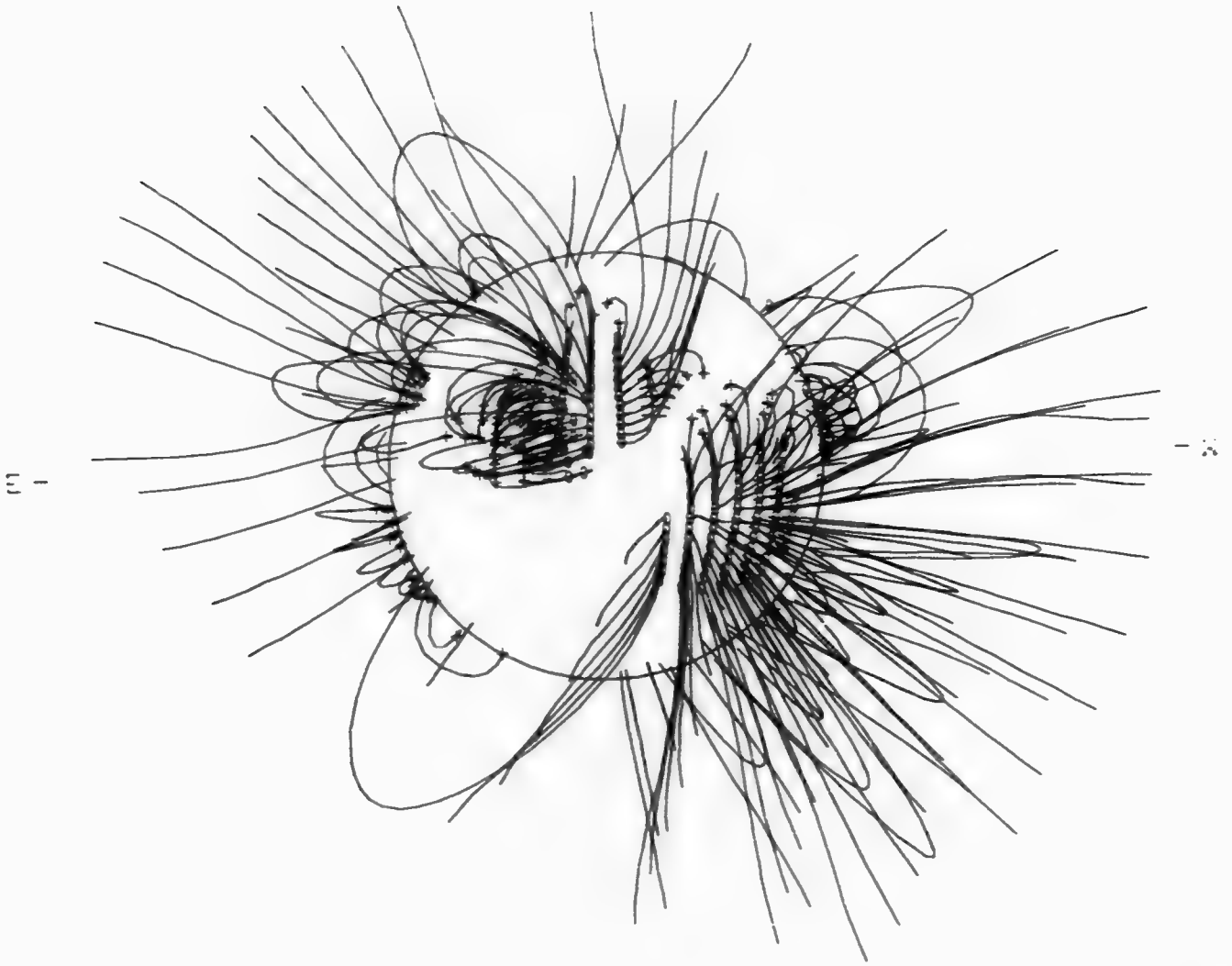
POLES DIRECT

DATA WINDOW 1561.4T

ROT. 1561 LONG. 31.6 MU. 197

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N



E

W

S

QUALITY GOOD

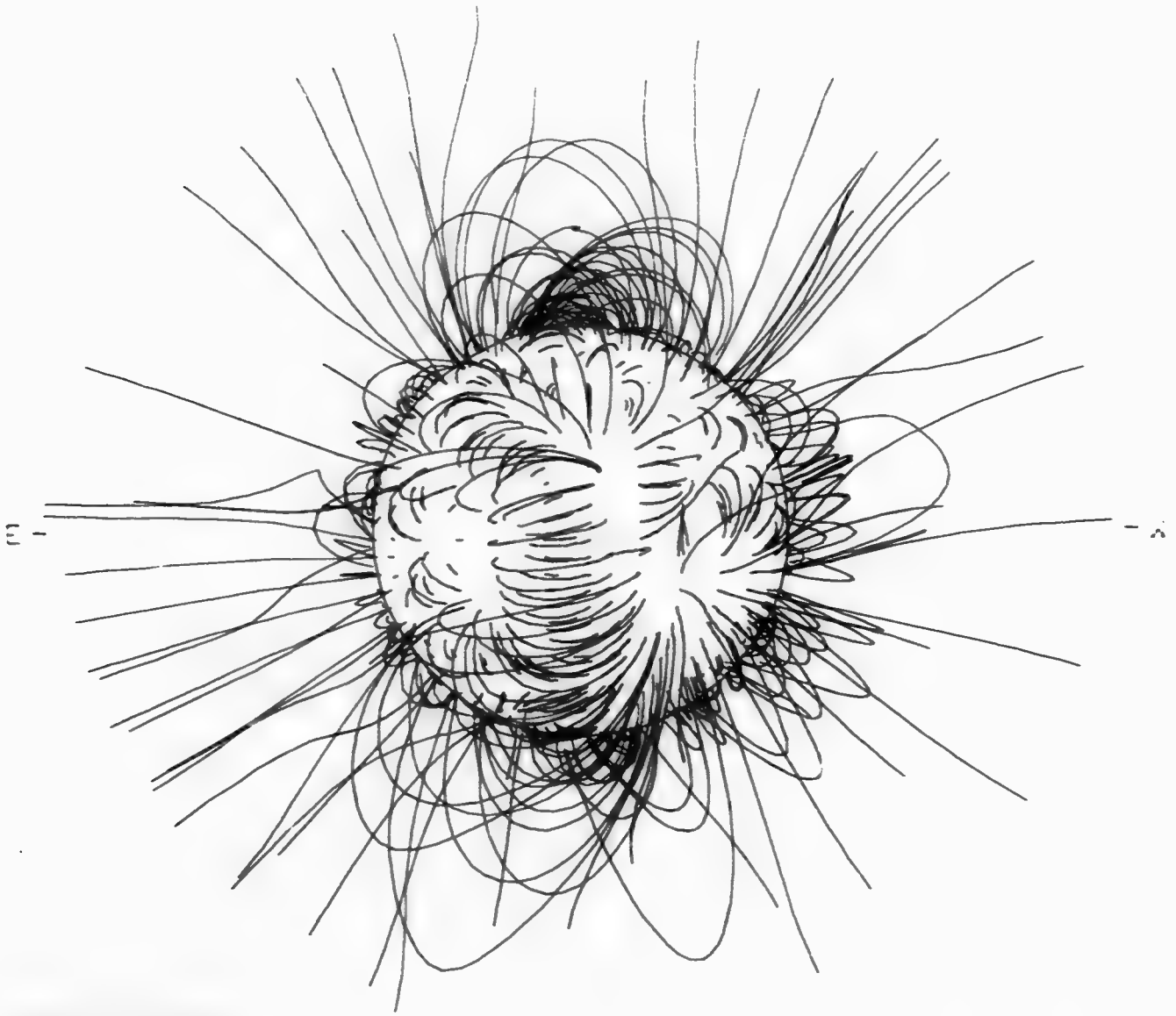
POLES DIRECT

DATA WINDOW 1561.47

ROT. 1561 LONG. 83°

31.6 MAY 1972

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



QUALITY GOOD

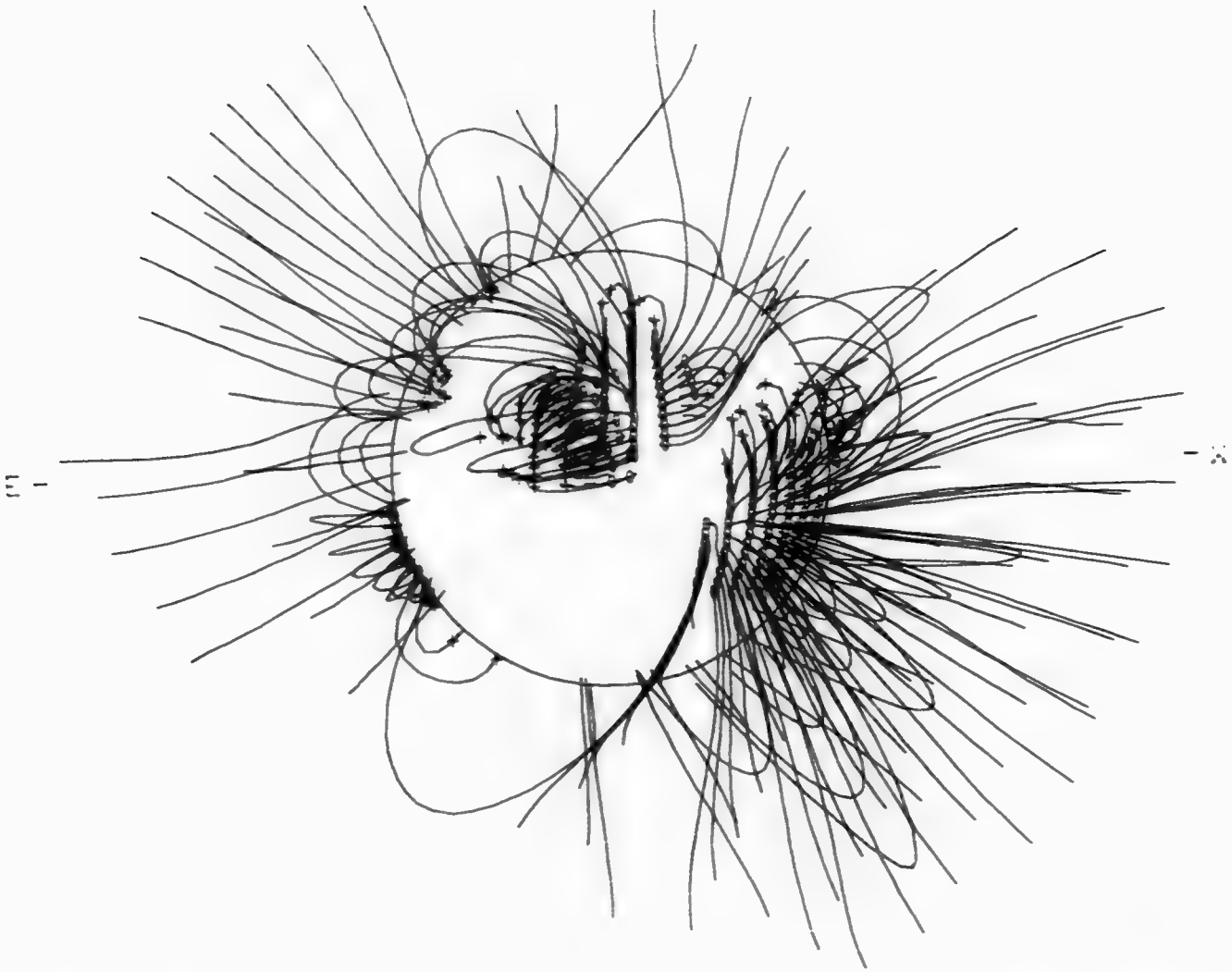
POLES DIRECT

DATA WINDOW 1561.47

ROT. 1561 LONG. 71°

1.2 JUN 1972

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



QUALITY GOOD

POLES DIRECT

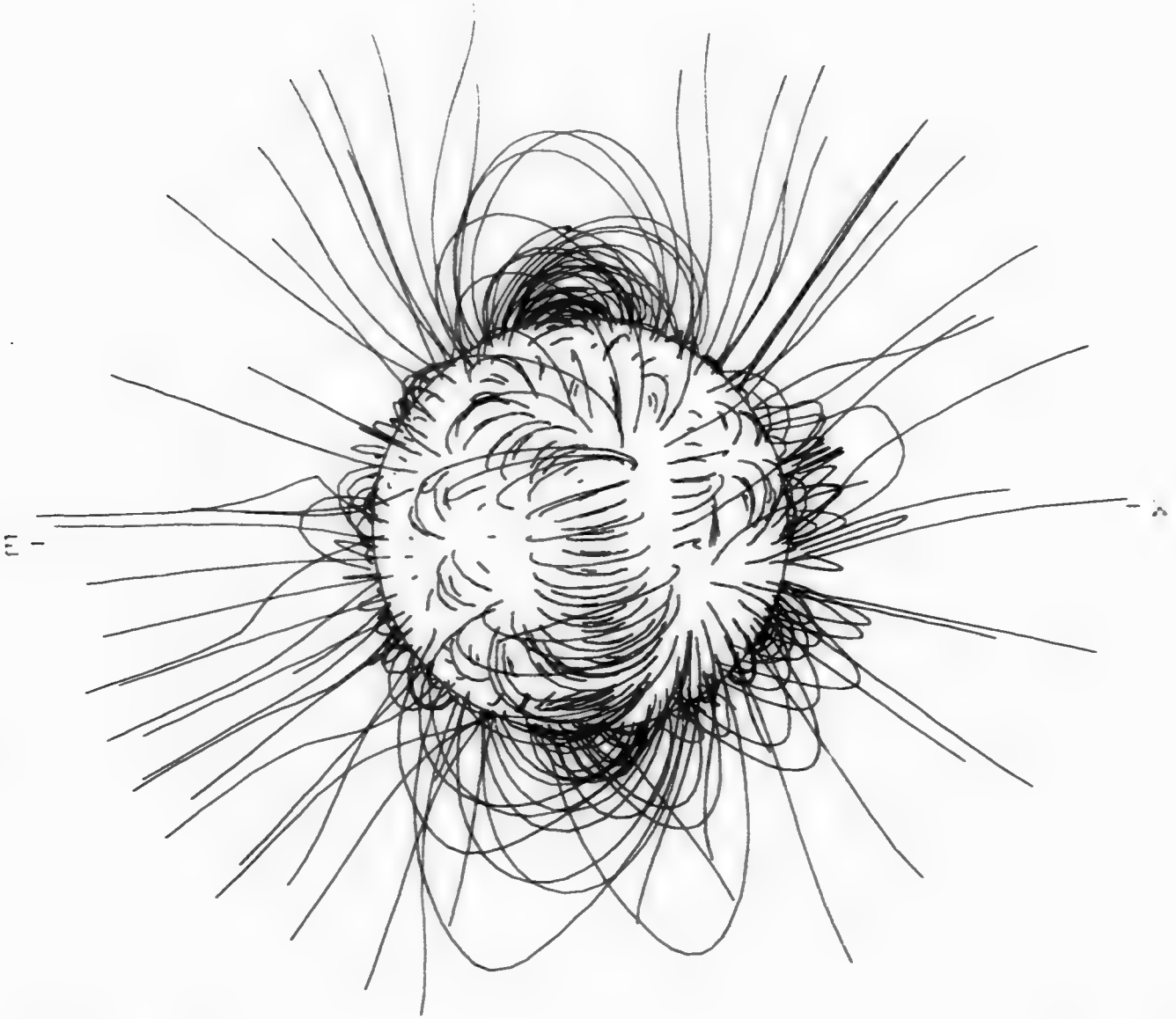
DATA WINDOW 1561.47

ROT. 1561 LONG. 73°

1.2 JUN 1970

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N



E

QUALITY GOOD

POLES DIRECT

DATA WINDOW 1561.47

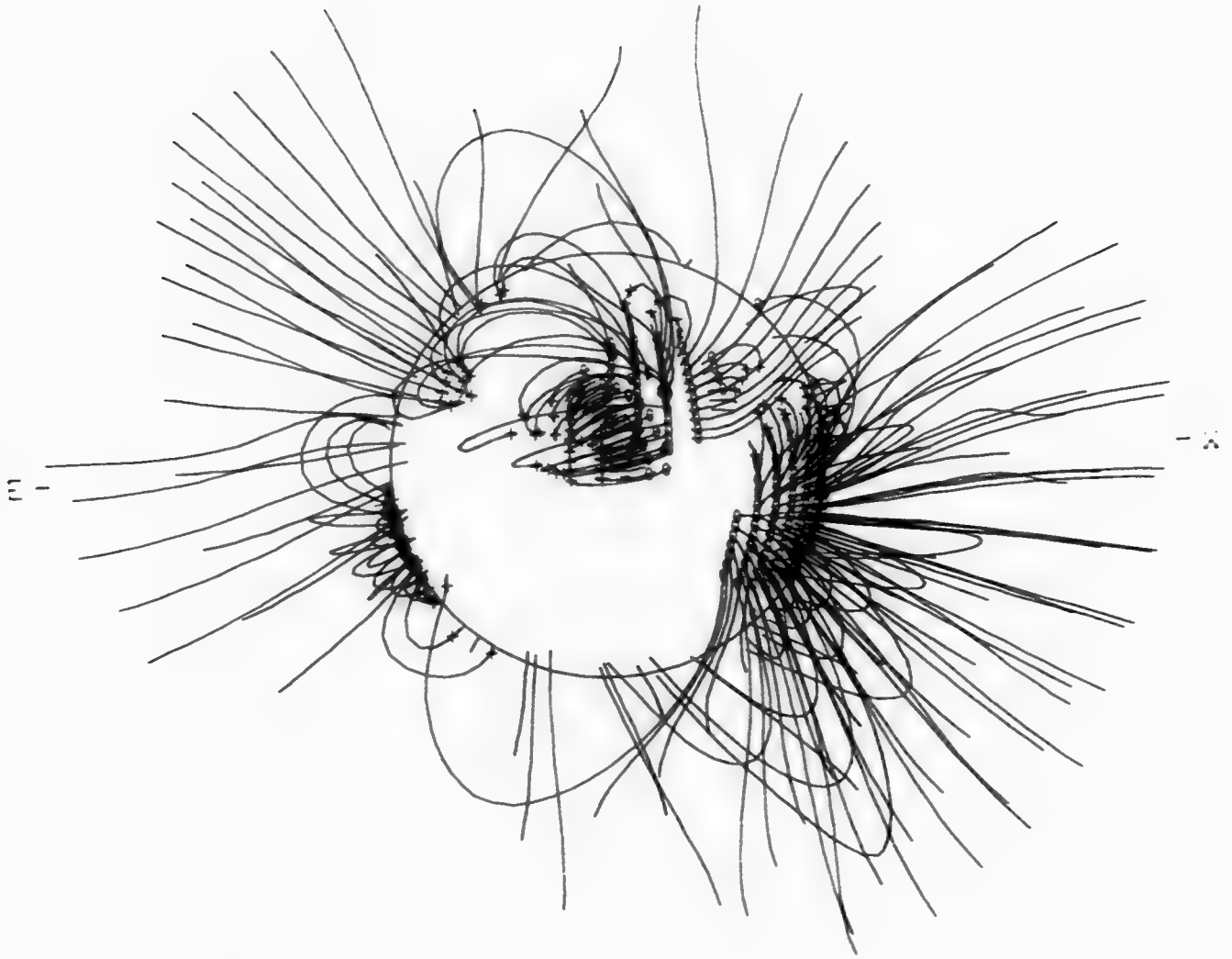
S

ROT. 1561 LONG. 65°

2.1 JUN 1973

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N



S

QUALITY GOOD

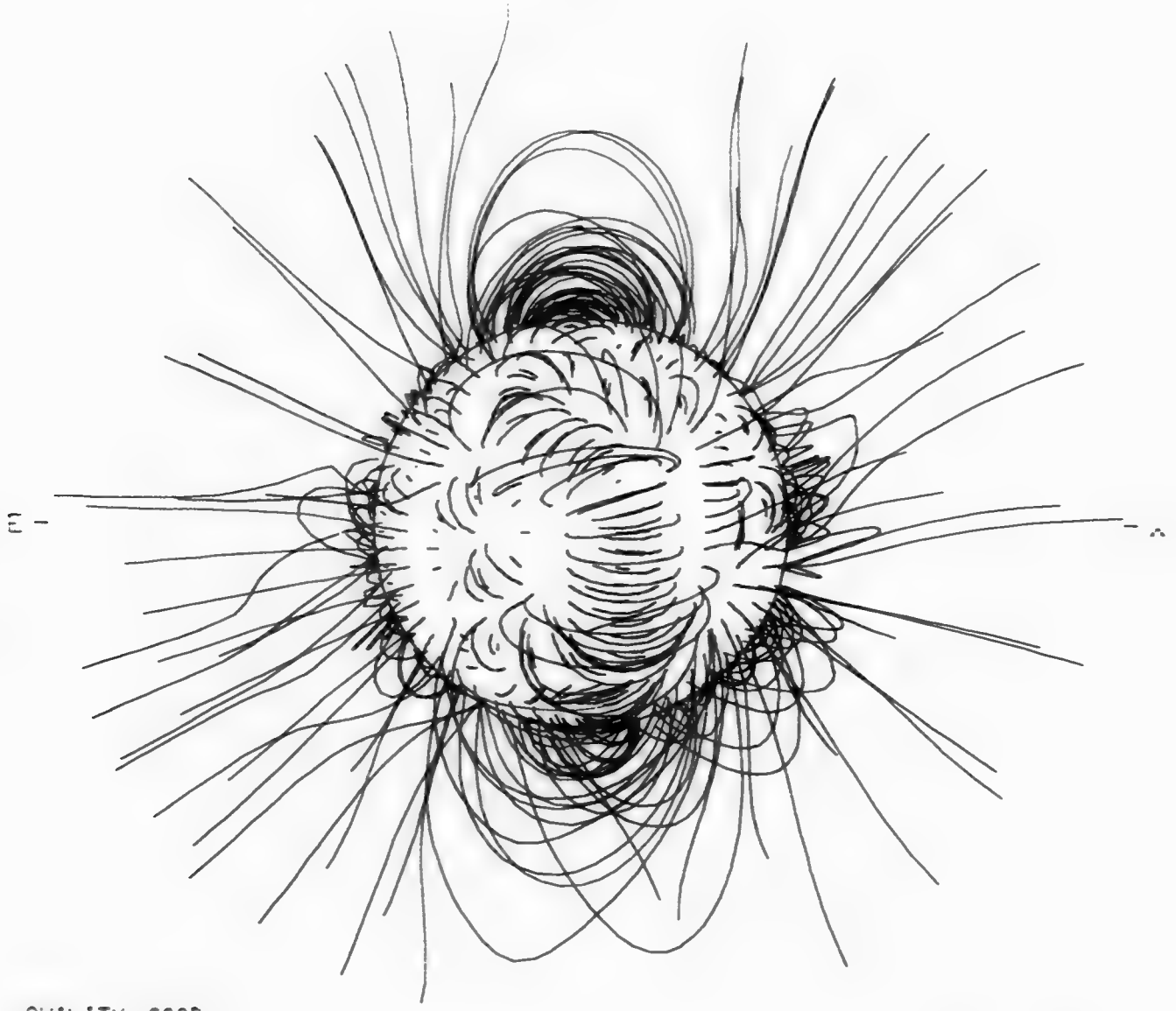
POLES DIRECT

DATA WINDOW 1561.47

ROT. 1561 LONG. 5[illegible]°

2.1 JUN 197[illegible]

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



QUALITY GOOD

POLES DIRECT

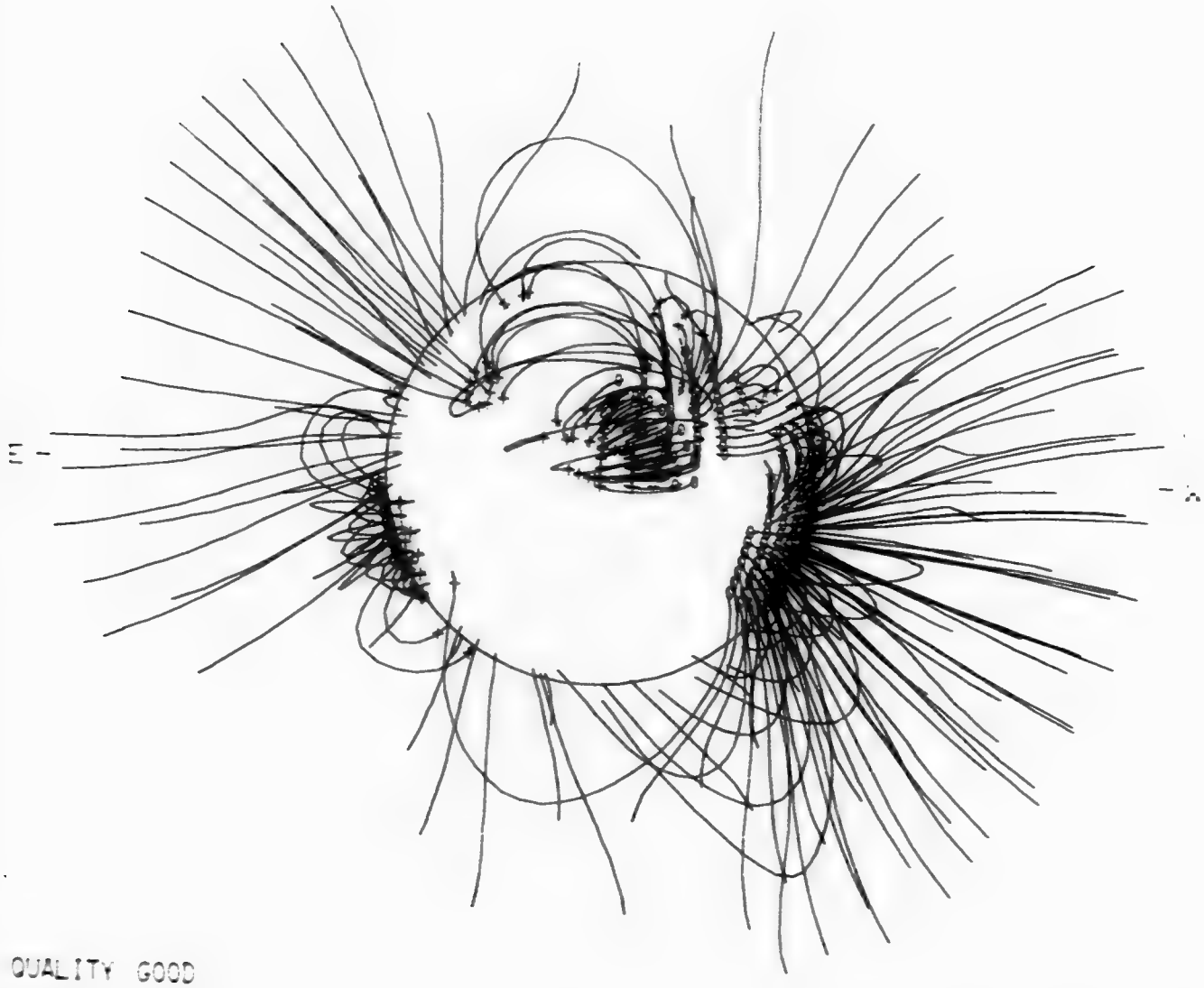
DATA WINDOW 1561.47

ROT. 1561 LONG. 50°

29 JUN 1970

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N



QUALITY GOOD

POLES DIRECT

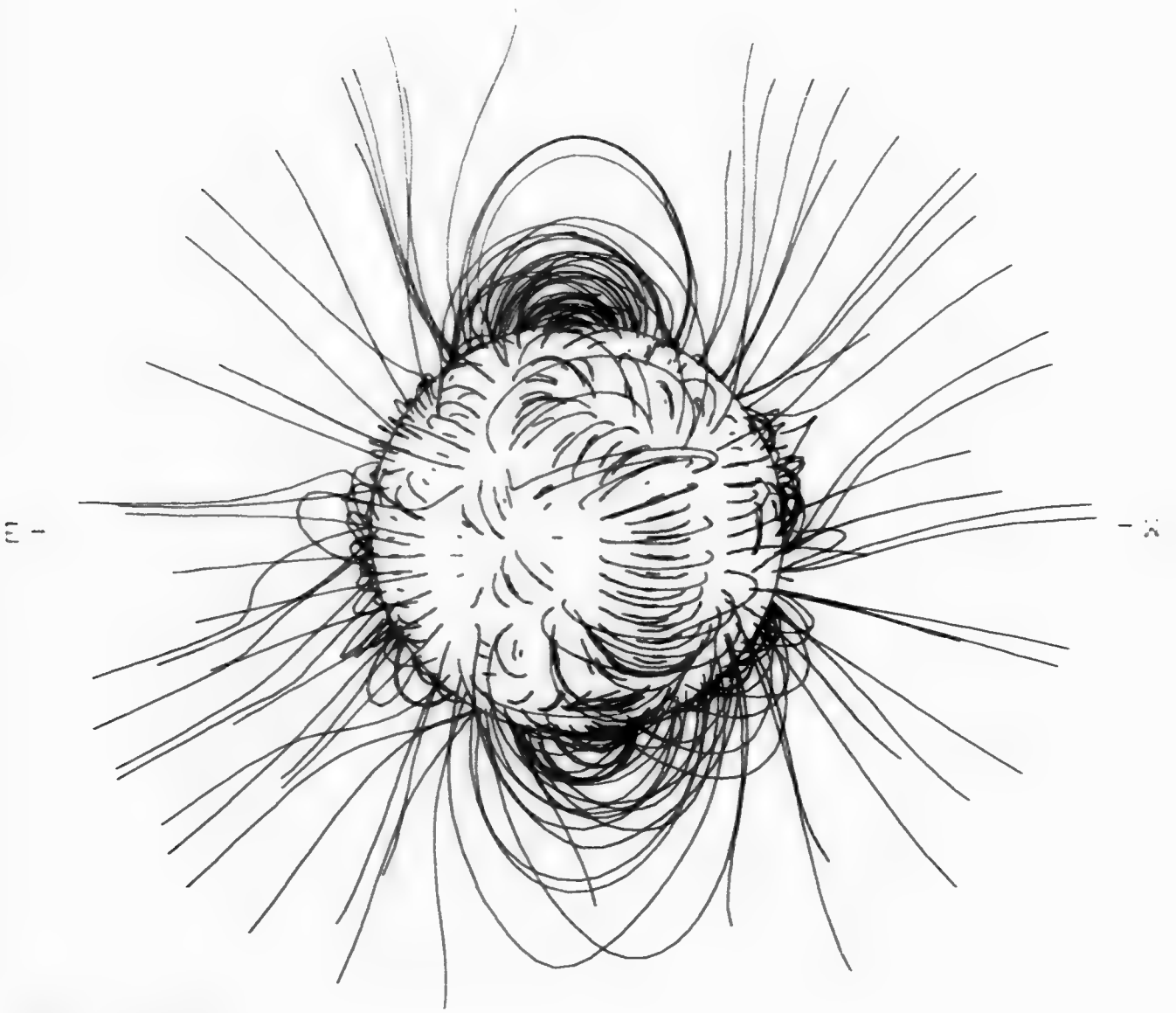
DATA WINDOW 1561.47

S

ROT. 1561 LONG. 50°

2.9 JUN 1970

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



QUALITY GOOD

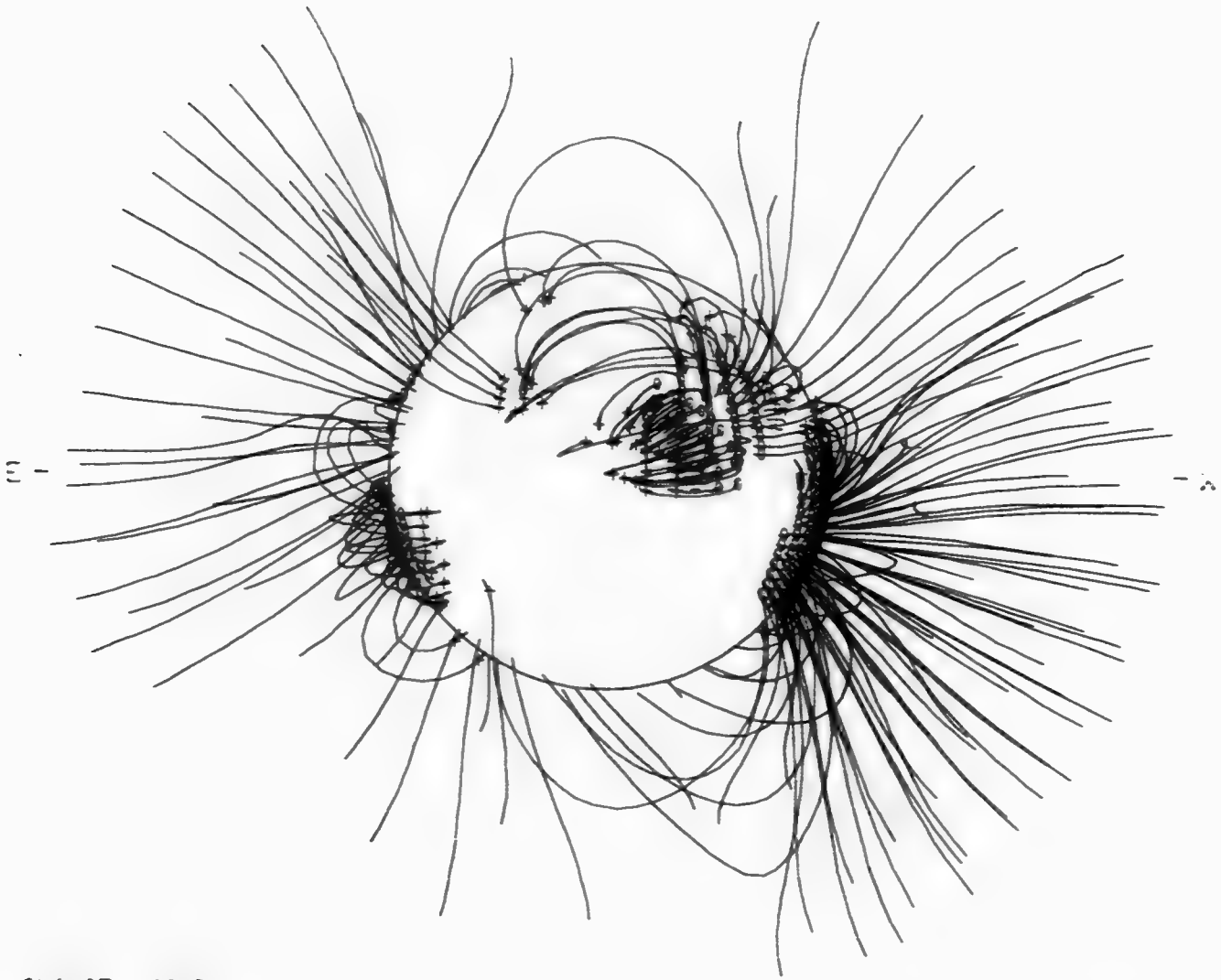
POLES DIRECT

DATA WINDOW 1561.47

ROT. 1561 LONG. 2[illegible]°

3.6 JUN 197[illegible]

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



QUALITY GOOD

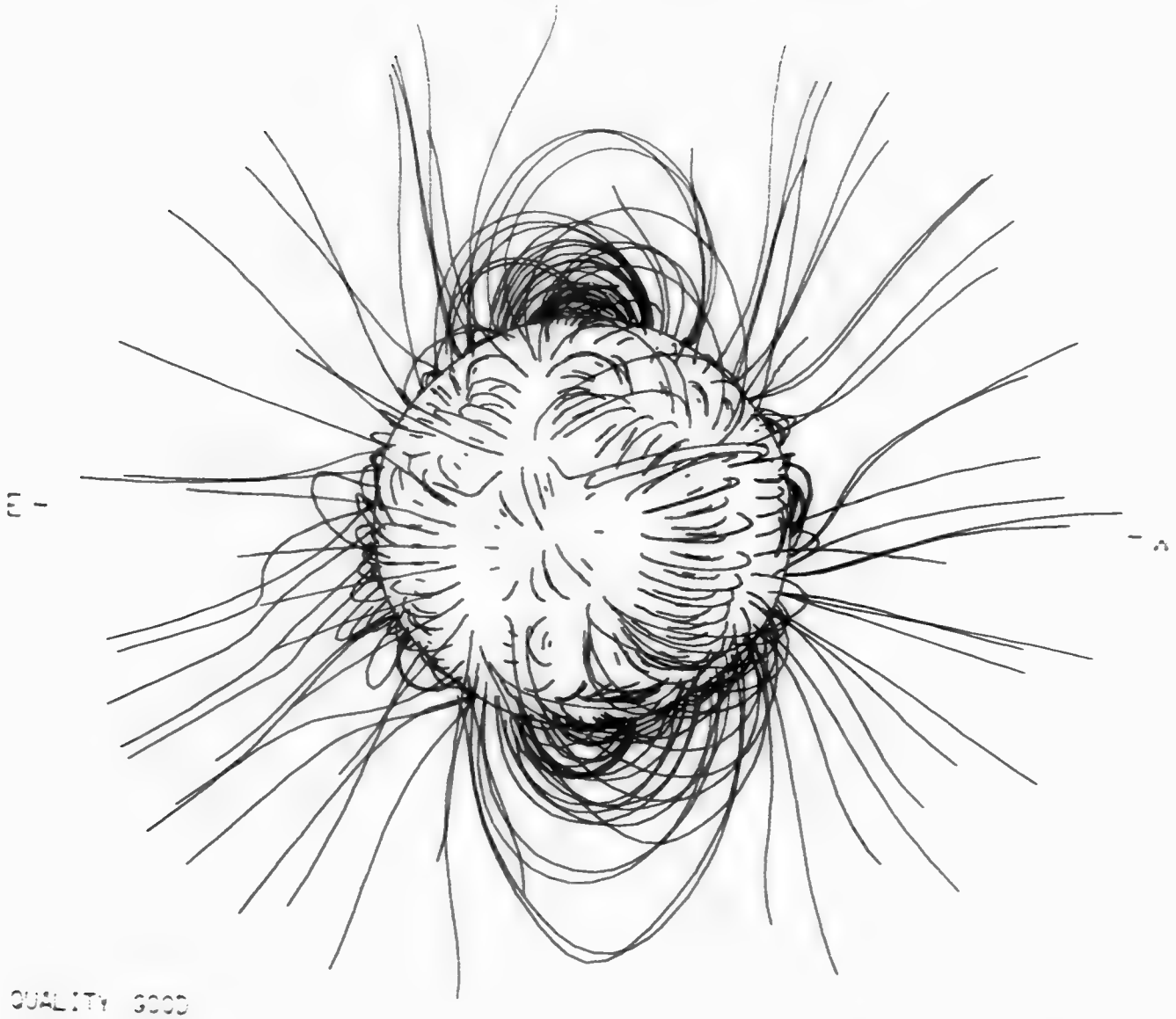
POLES DIRECT

DATA WINDOW 1561.47

ROT. 1561 LONG. 22°

3.6 JUN 1972

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



QUALITY GOOD

POLES DIRECT

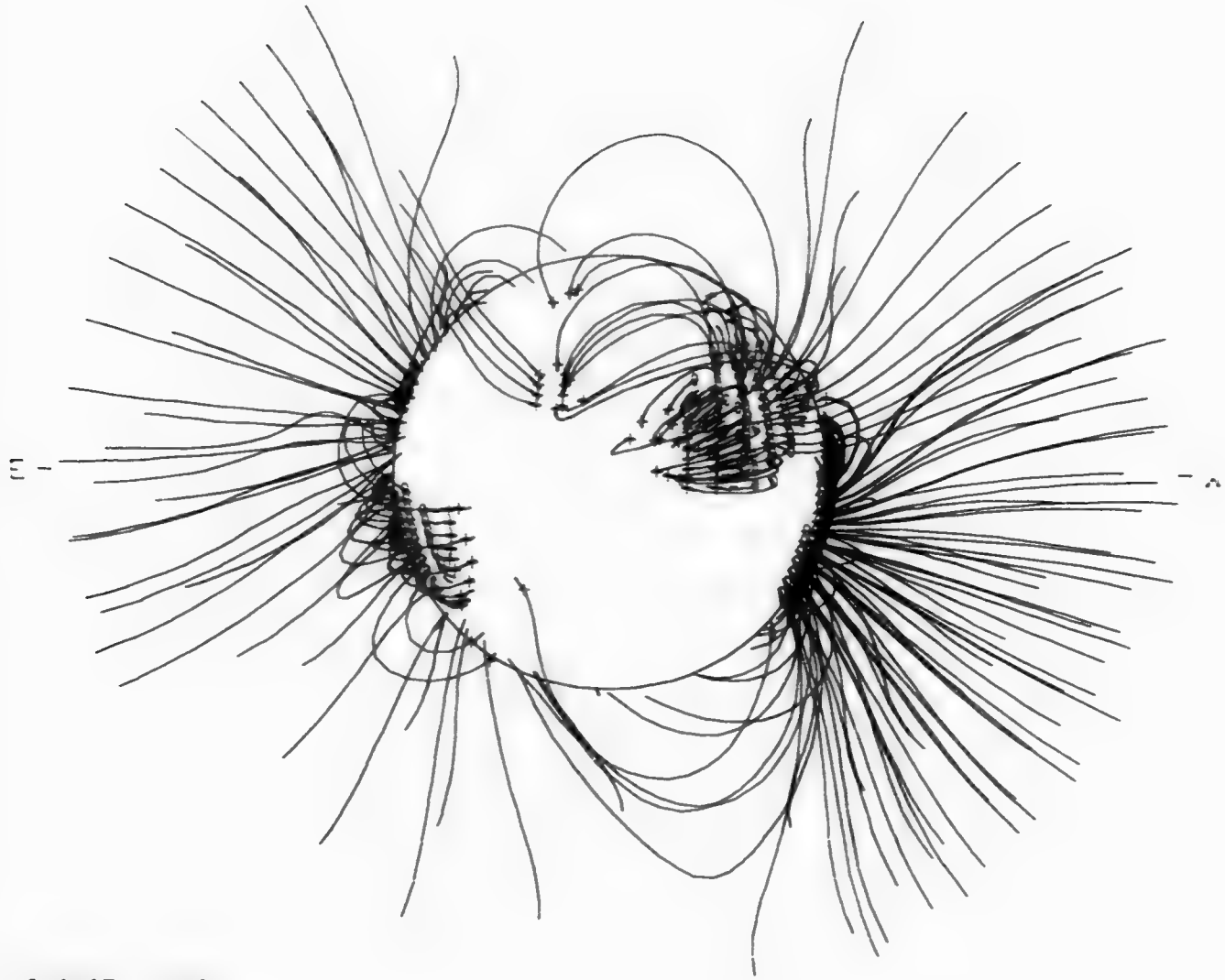
DATA WINDOW 1561.47

ROT. 1561 LONG. 5[illegible]°

[illegible] JUN 197[illegible]

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N



QUALITY GOOD

POLES DIRECT

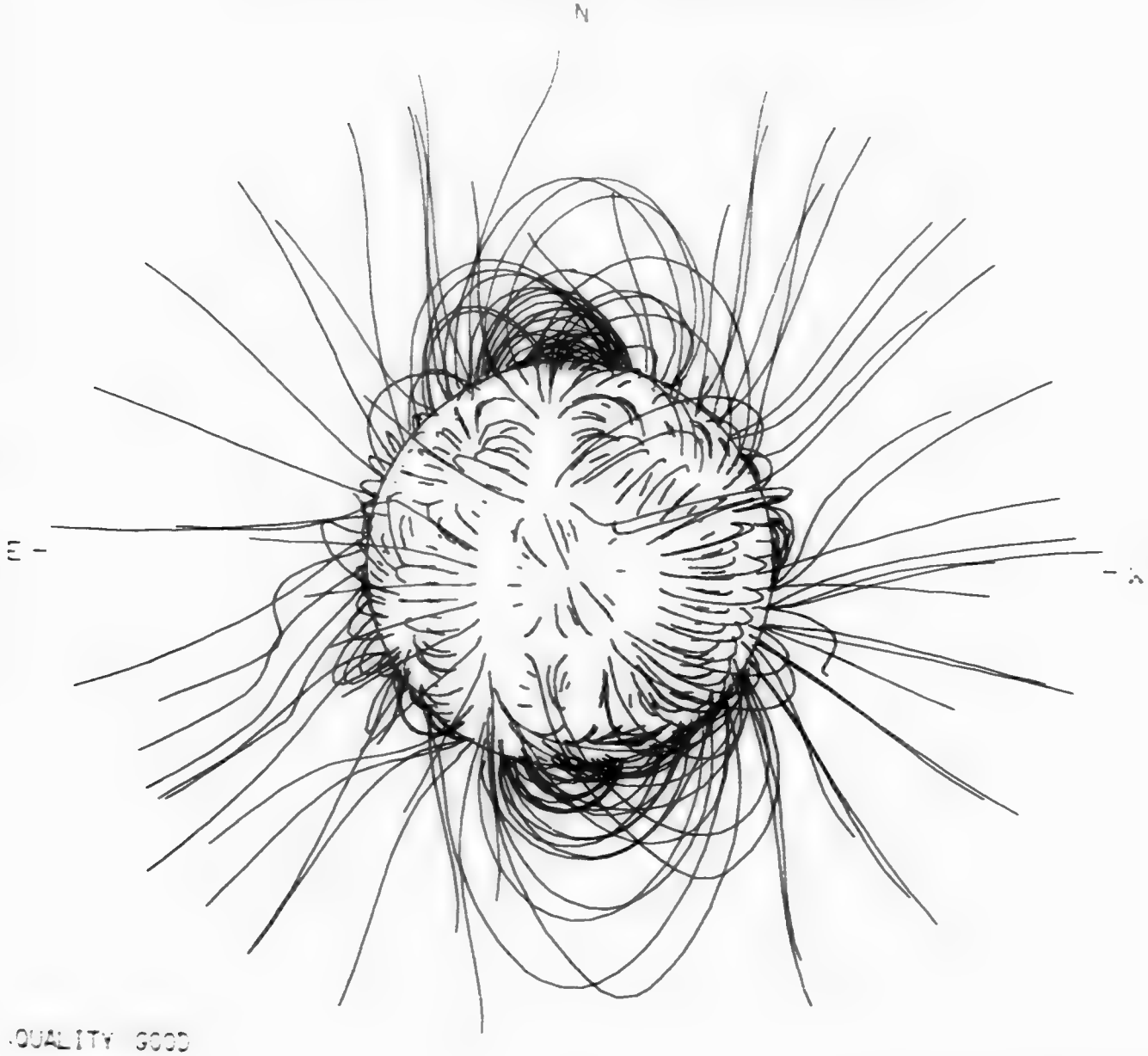
DATA WINDOW 1561.47

S

ROT. 1561 LONG. 5[illegible]°

[illegible] JUN 197[illegible]

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



QUALITY GOOD

POLES DIRECT

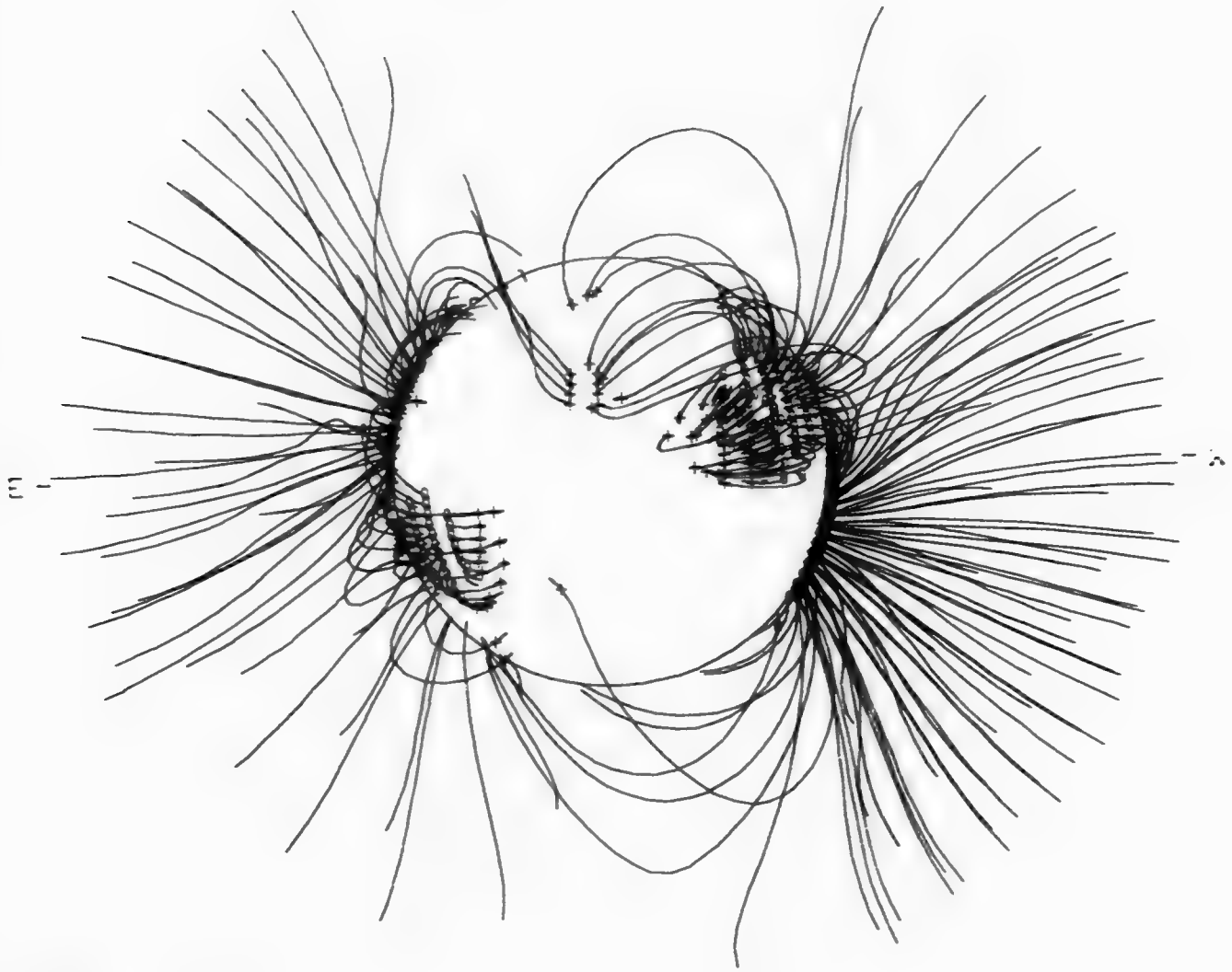
DATA WINDOW 1561.47

ROT. 1561 LONG. 21°

5.1 JUN 1972

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N



S

QUALITY GOOD

POLES DIRECT

DATA WINDOW 1561.47

ROT. 1561 LONG. 21°

5.1 JUN 1973

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

QUALITY GOOD

POLES DIRECT

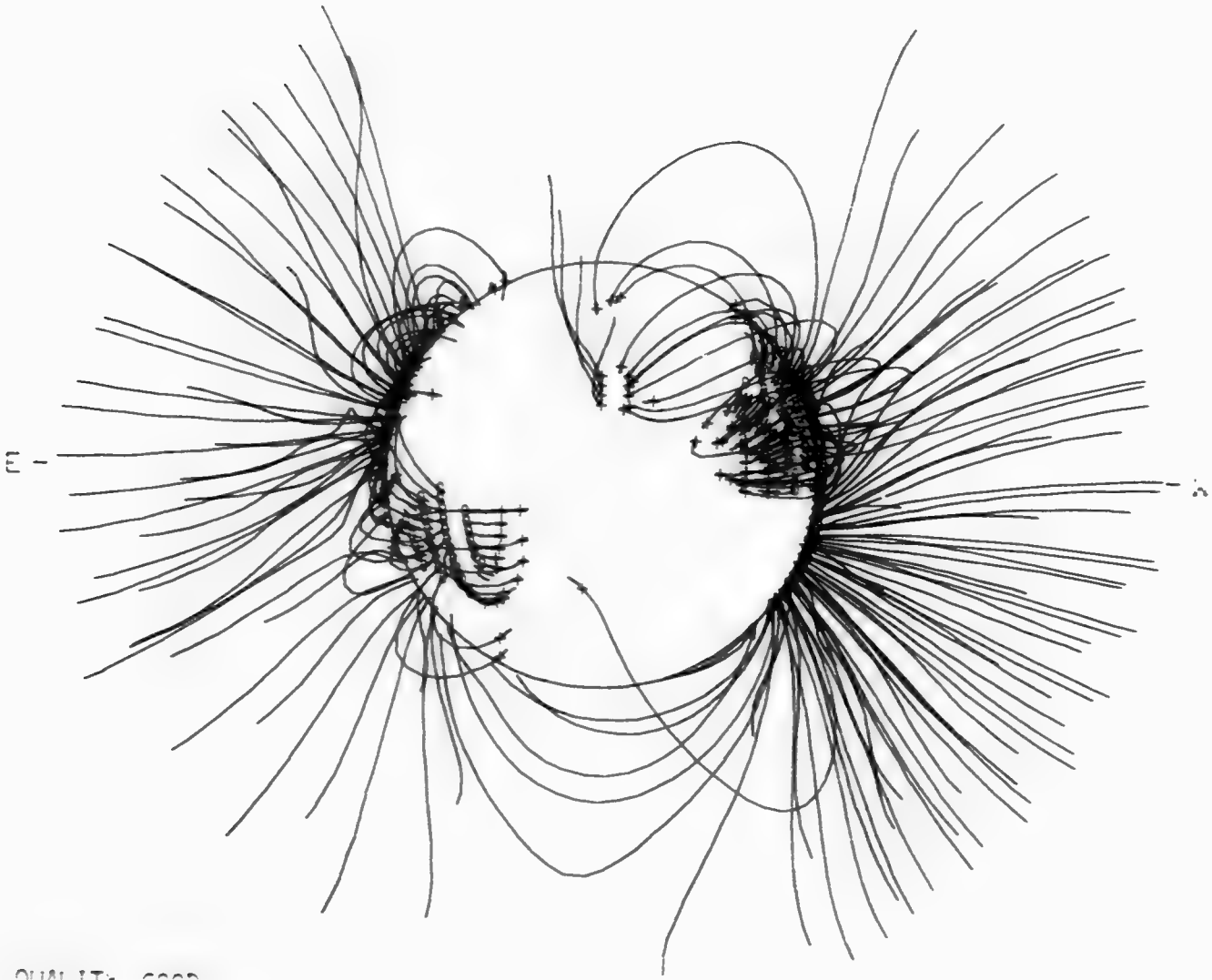
DATA WINDOW 1561.47

ROT. 1561 LONG. 1[illegible]°

5.9 JUN 197[illegible]

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N



QUALITY GOOD

POLES DIRECT

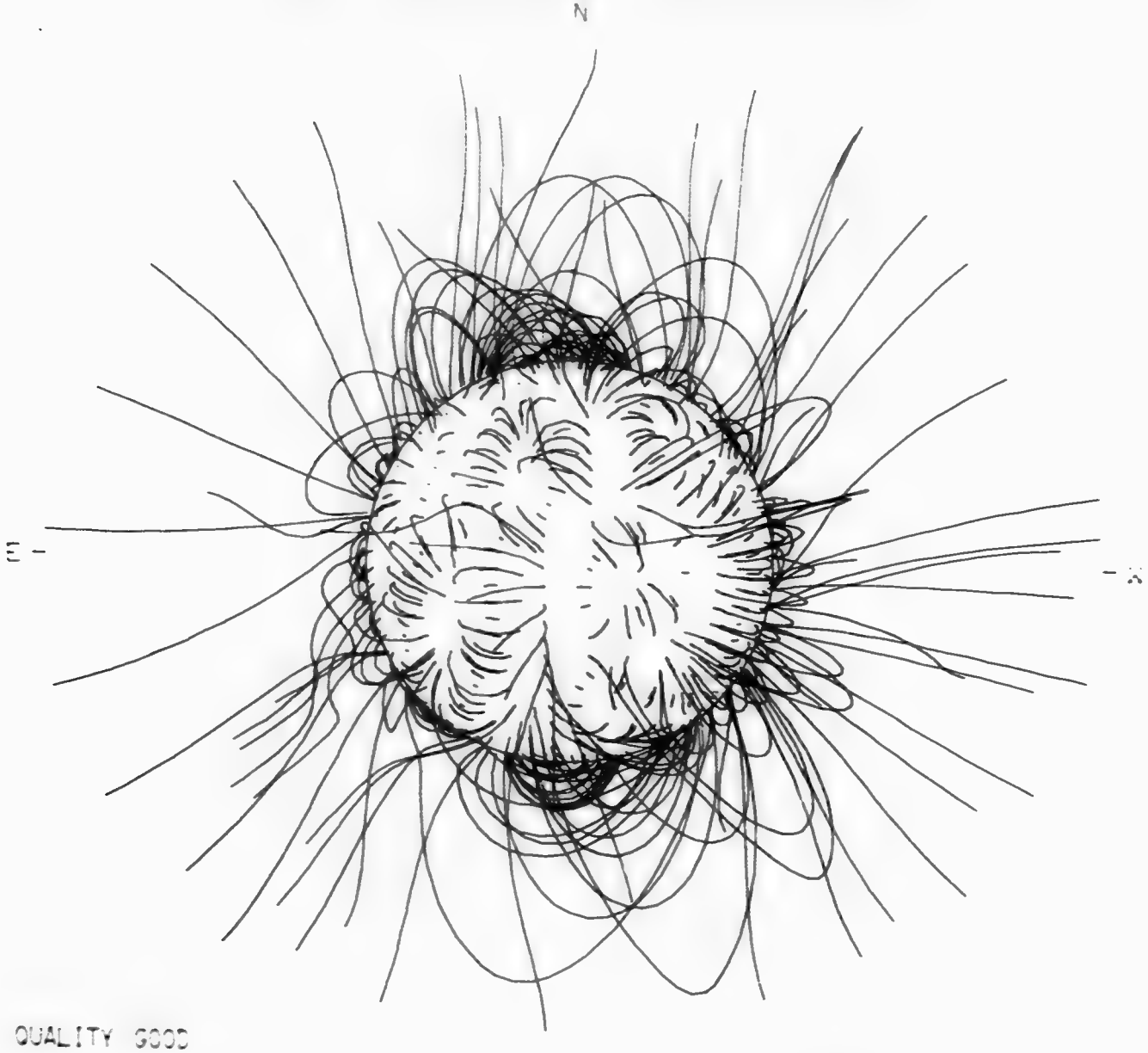
DATA WINDOW 1561.47

S

ROT. 1561 LONG. 12°

5.9 JUN 1972

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



QUALITY GOOD

POLES DIRECT

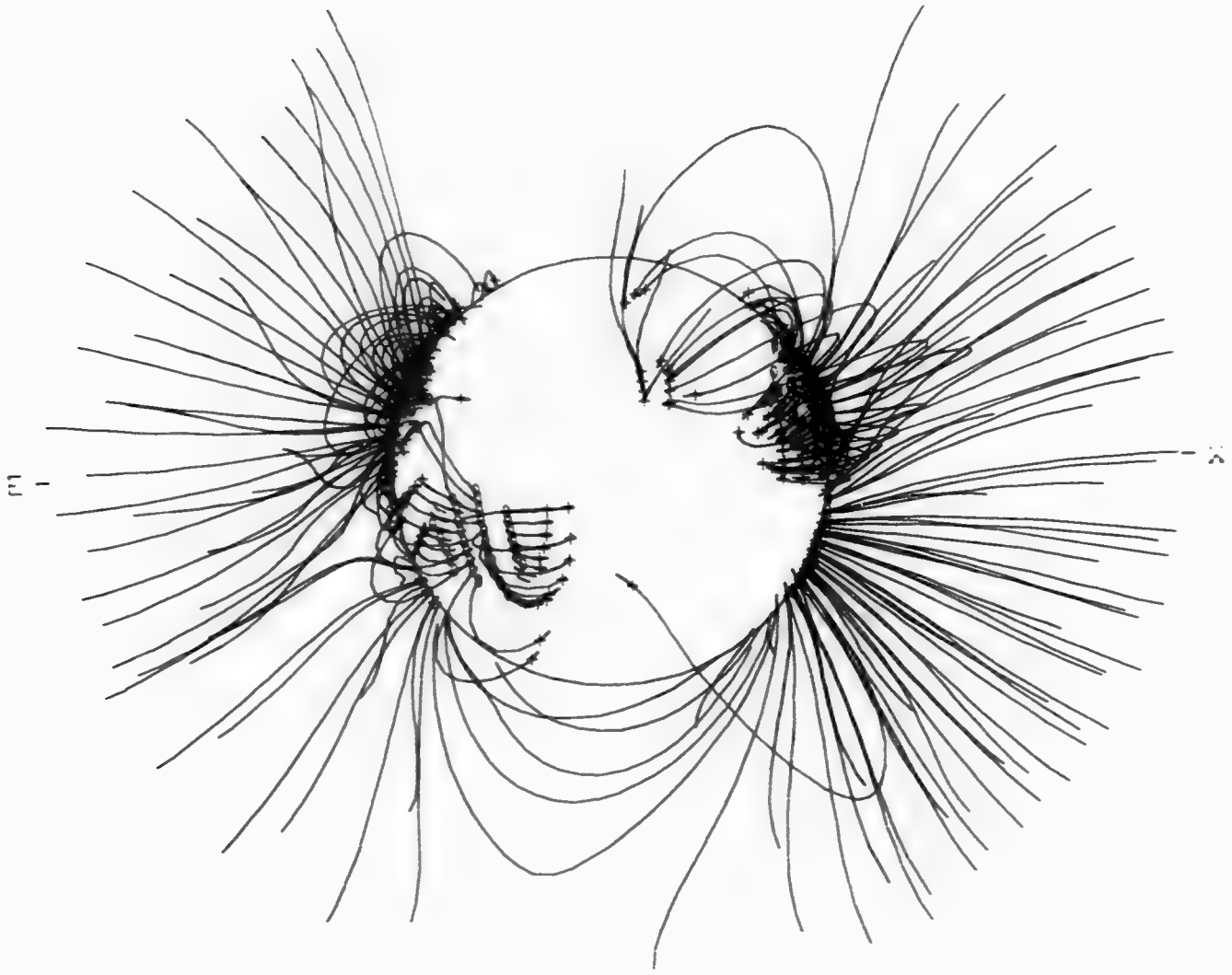
DATA WINDOW 1561.47

ROT. 1561 LONG. 0°

SUN 1970

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N



S

QUALITY GOOD

POLES DIRECT

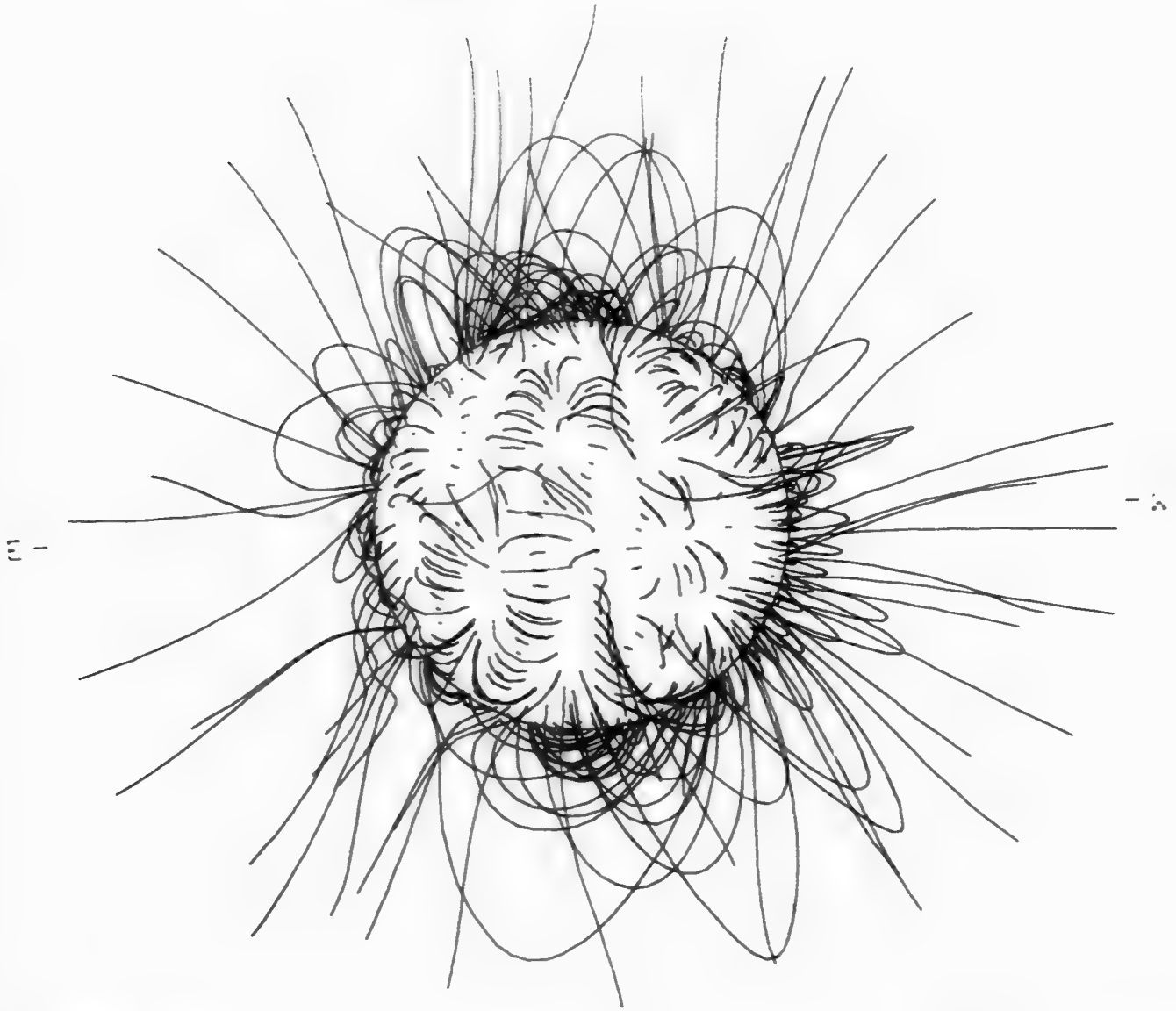
DATA WINDOW 1561.47

ROT. 1561 LONG.

6.7 LON 197

HIGH ALTITUDE OBSER.ATOR. - HALE OBSER.ATORIES

N



E -

- A

S

QUALITY GOOD

POLES DIRECT

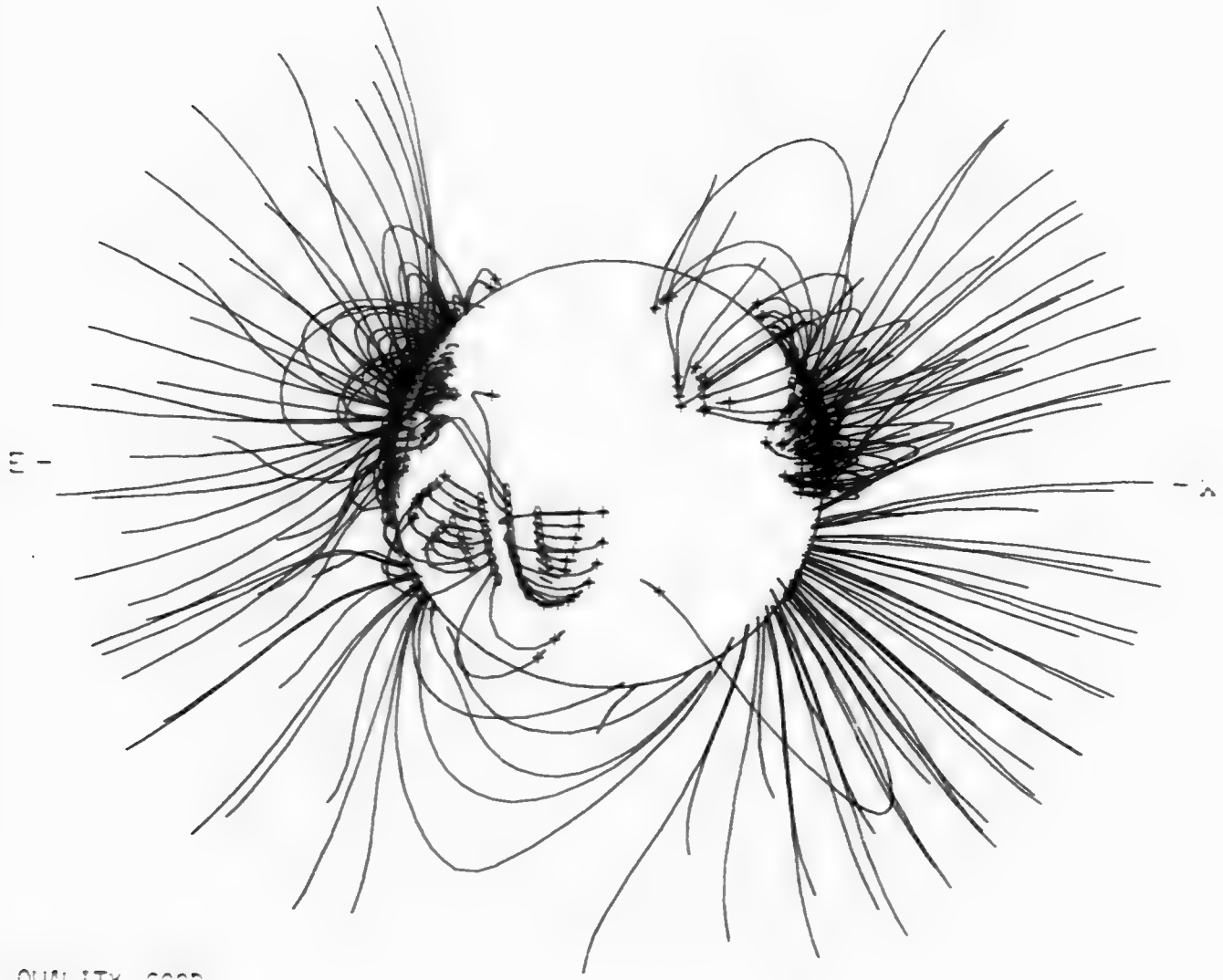
DATA WINDOW 1561.47

ROT. 1562 LONG. 55[illegible]°

[illegible].[illegible] JUN 197[illegible]

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N



QUALITY GOOD

POLES DIRECT

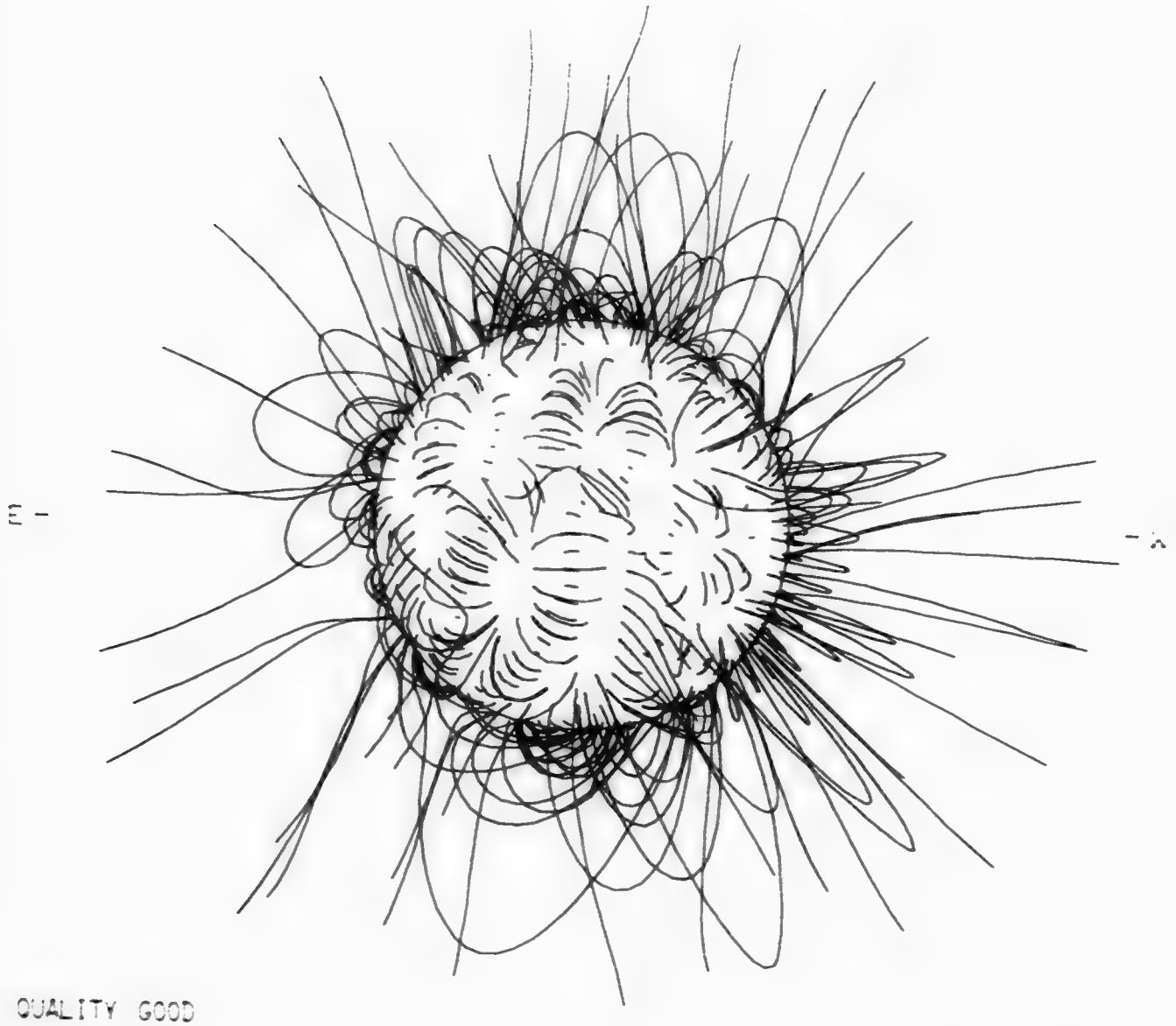
DATA WINDOW 1561.47

S

ROT. 1562 LONG. 55[illegible]°

[illegible].4 JUN 197[illegible]

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



QUALITY GOOD

POLES DIRECT

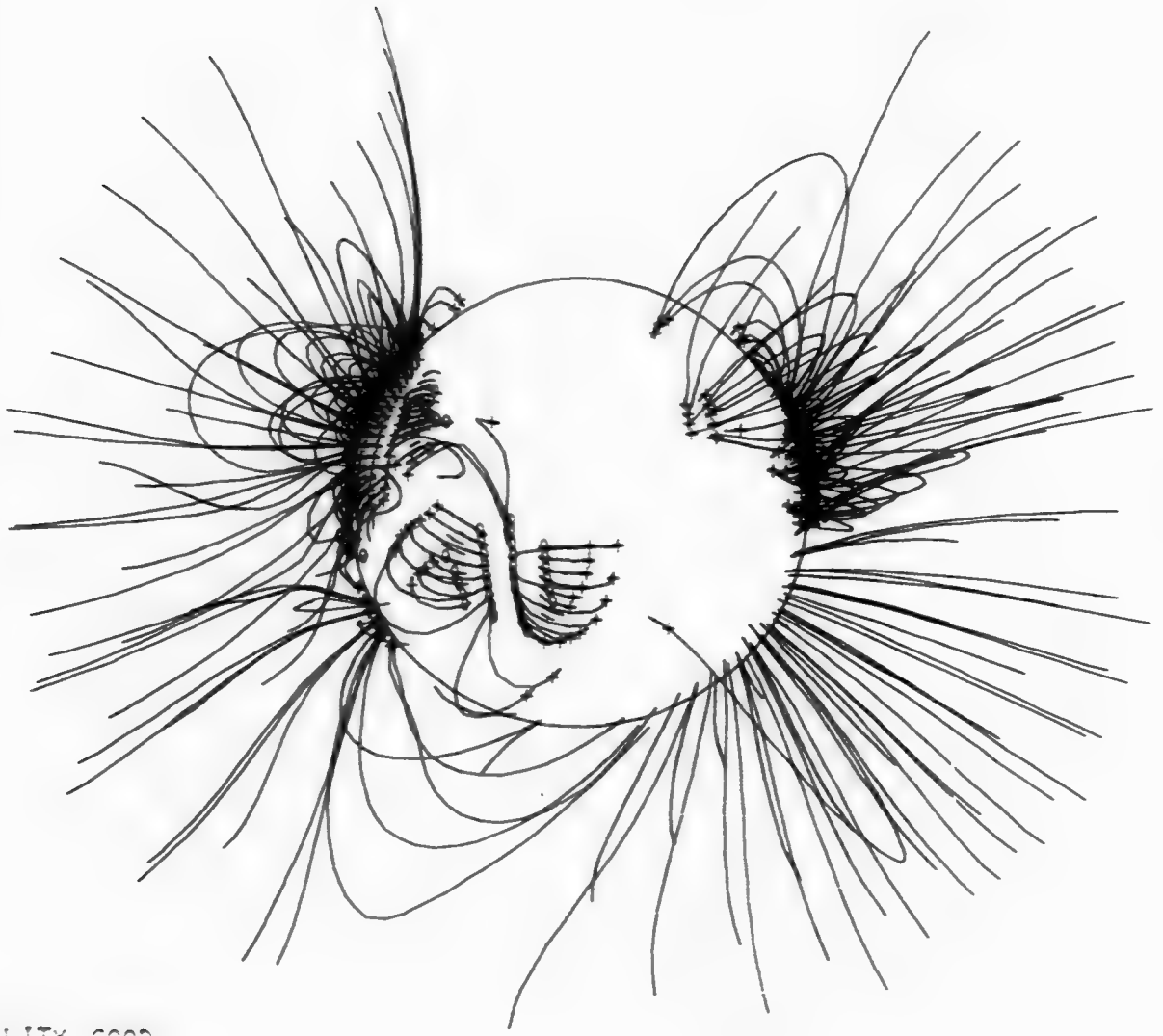
DATA WINDOW 1561.47

ROT. 1562 LONG. 5[illegible]°

8.2 JUN 197[illegible]

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N



E

A

QUALITY GOOD

POLES DIRECT

DATA WINDOW 1561.47

S

ROT. 1562 LONG. 5[illegible]°

8.2 JUN 197[illegible]

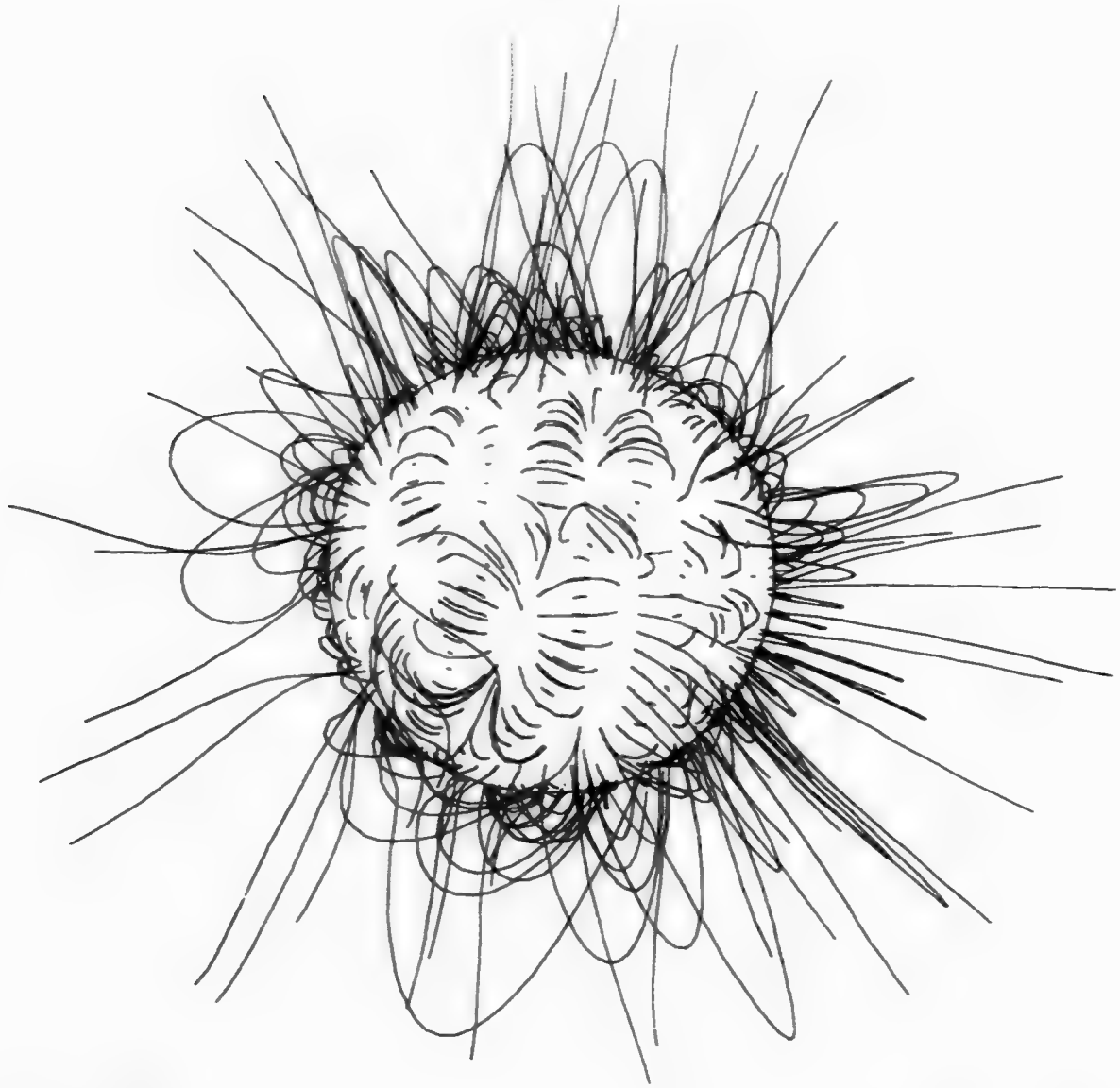
HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N

E

A

S



QUALITY GOOD

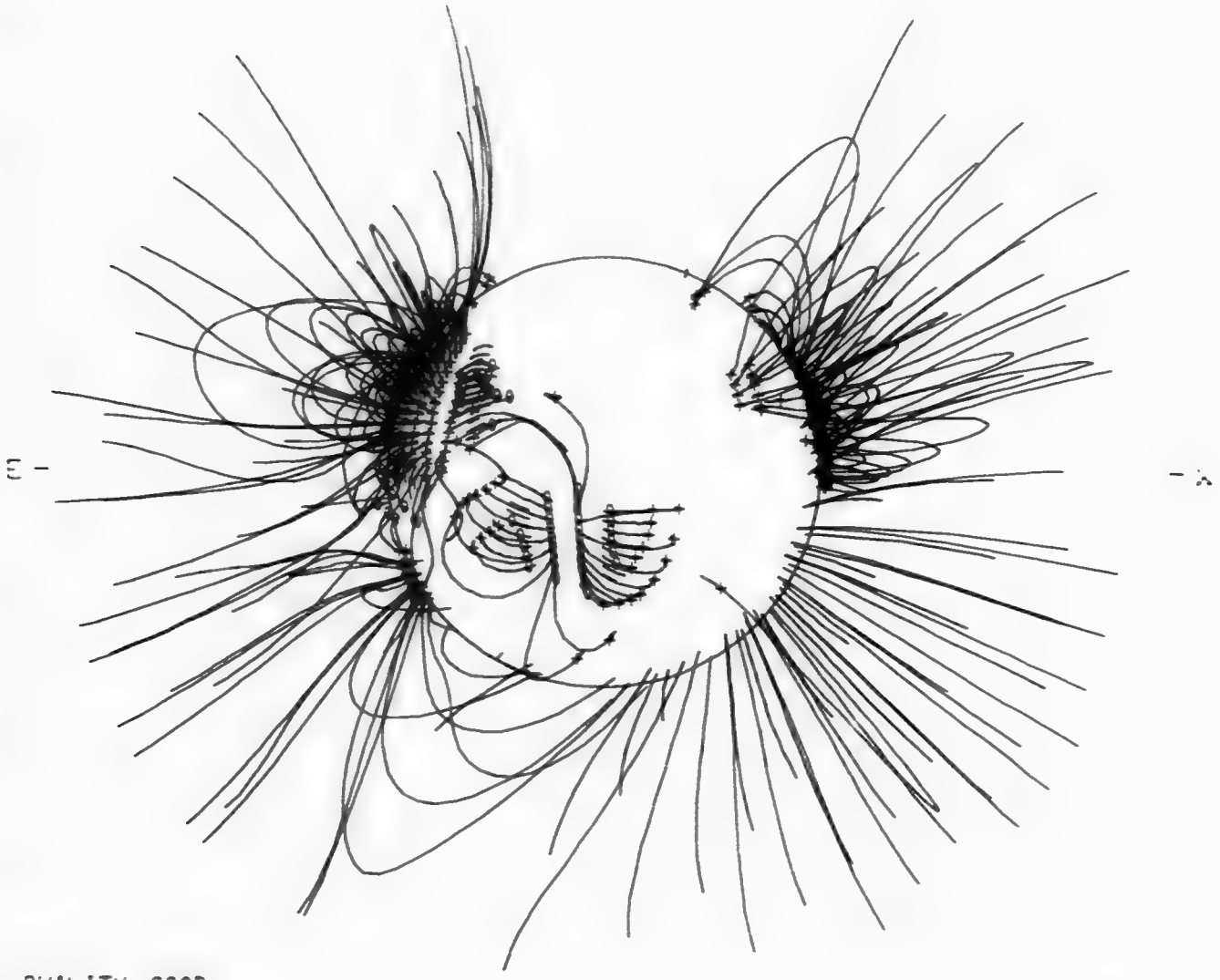
POLES DIRECT

DATA WINDOW 1561.4T

ROT. 1562 LONG. 55[illegible]°

8.9 JUN 197[illegible]

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



QUALITY GOOD

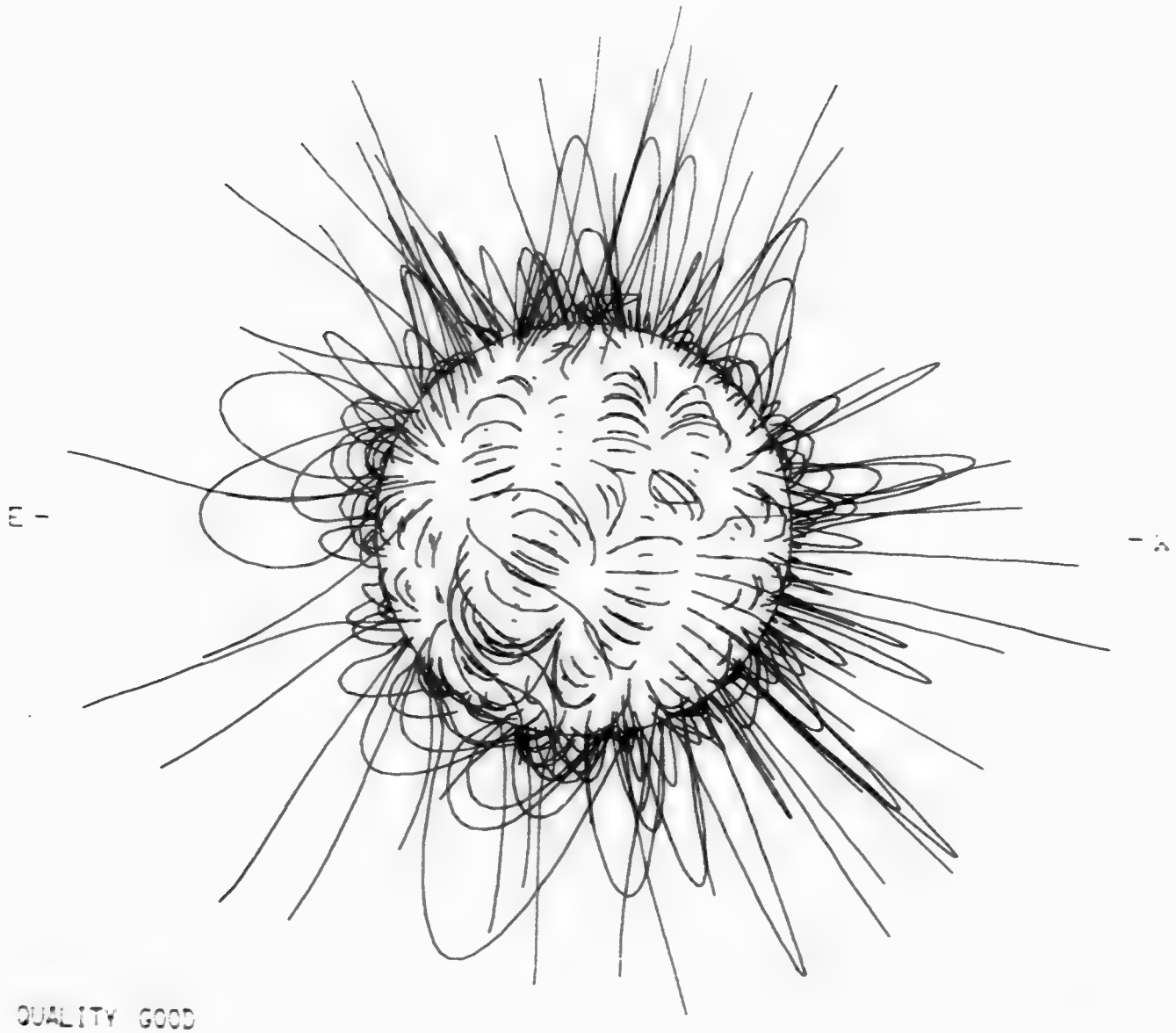
POLES DIRECT

DATA WINDOW 1561.47

ROT. 1562 LONG. 55°

8.9 JUN 1970

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



QUALITY GOOD

POLES DIRECT

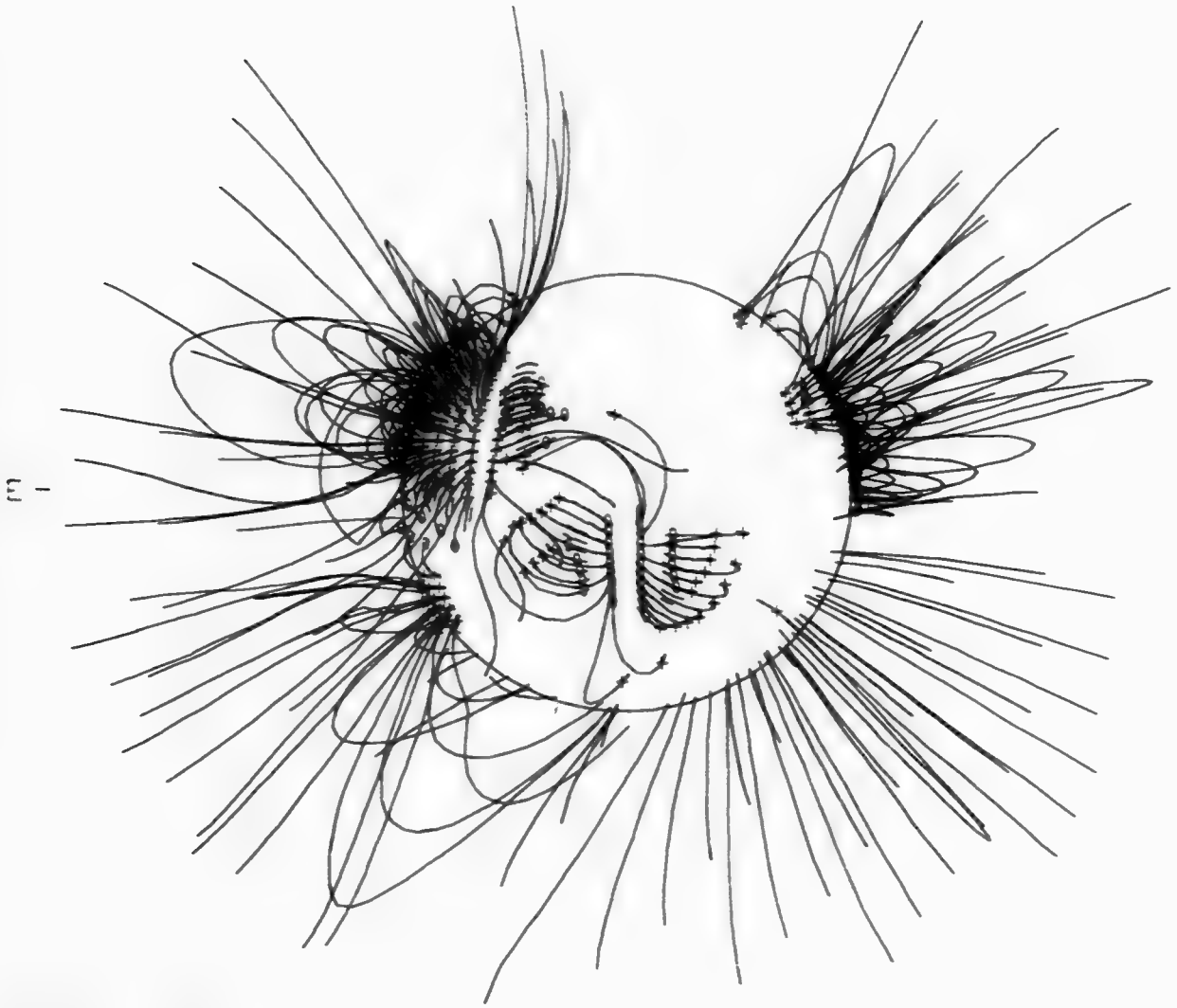
DATA WINDOW 1561.47

ROT. 1562 LONG. 301°

9.7 JUN 1970

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N



E

A

S

QUALITY GOOD

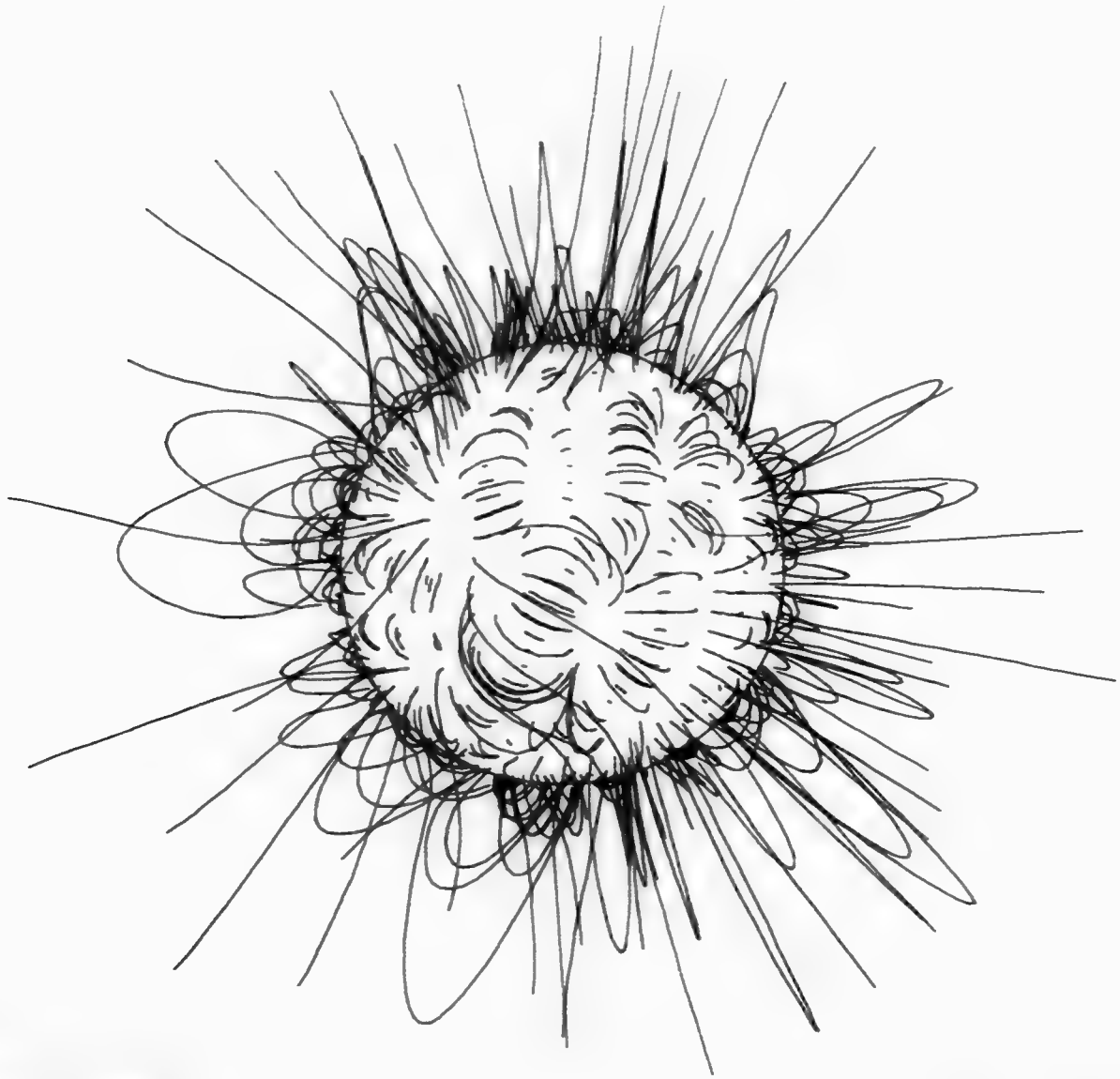
POLES DIRECT

DATA WINDOW 1561.47

ROT. 1562 LONG. 323°

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N



E

W

S

QUALITY GOOD

POLES DIRECT

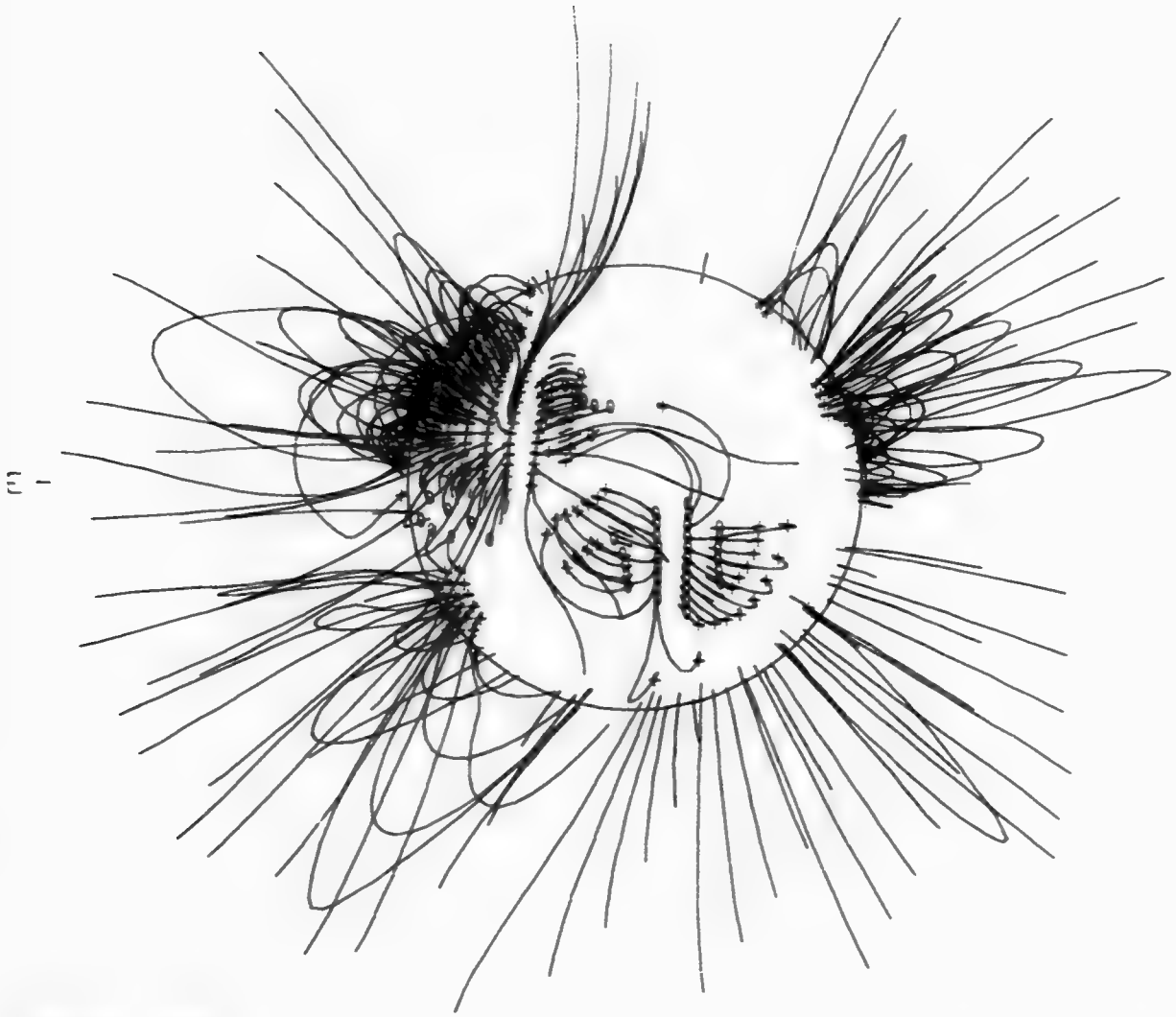
DATA WINDOW 1561.47

ROT. 1562 LONG. 51°

10.4 JUN 1970

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N



E

A

S

QUALITY GOOD

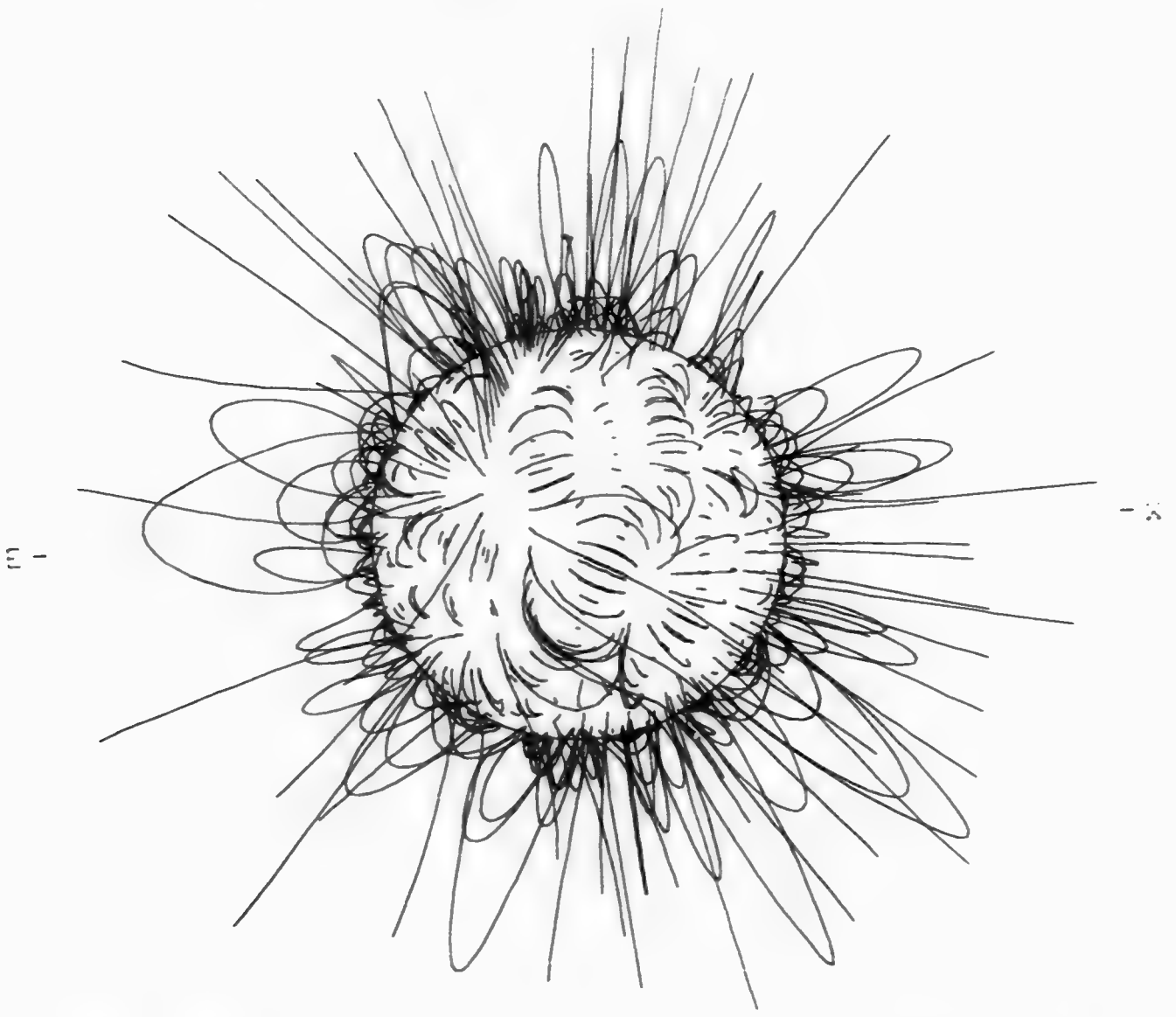
POLES DIRECT

DATA WINDOW 1561.47

ROT. 1562 LONG. 51°

10.4 JUN 1970

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



QUALITY GOOD

POLES DIRECT

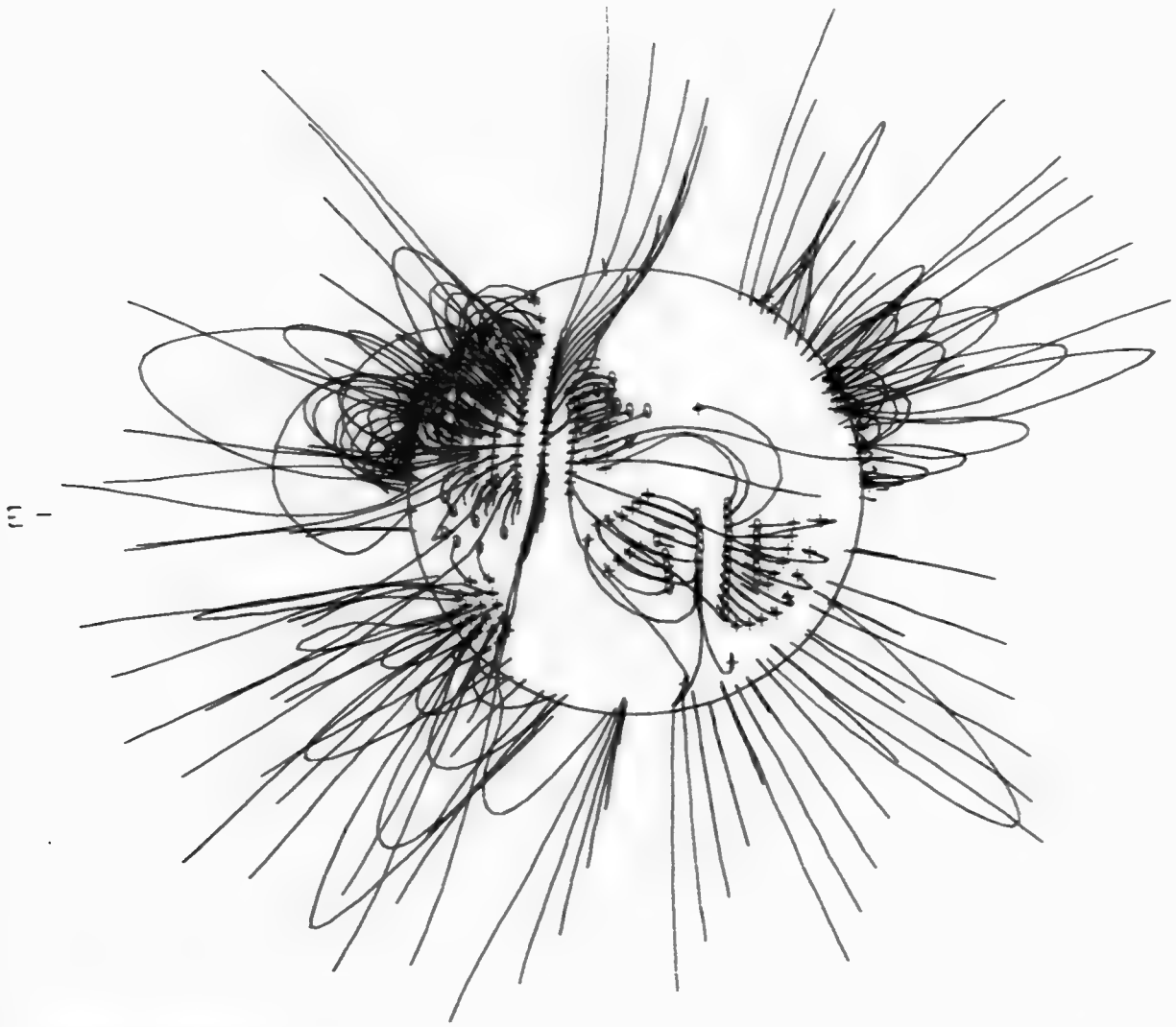
DATA WINDOW 1561.47

ROT. 1562 LONG. 3[illegible]°

11.2 JUN 197[illegible]

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N



E

A

S

QUALITY GOOD

POLES DIRECT

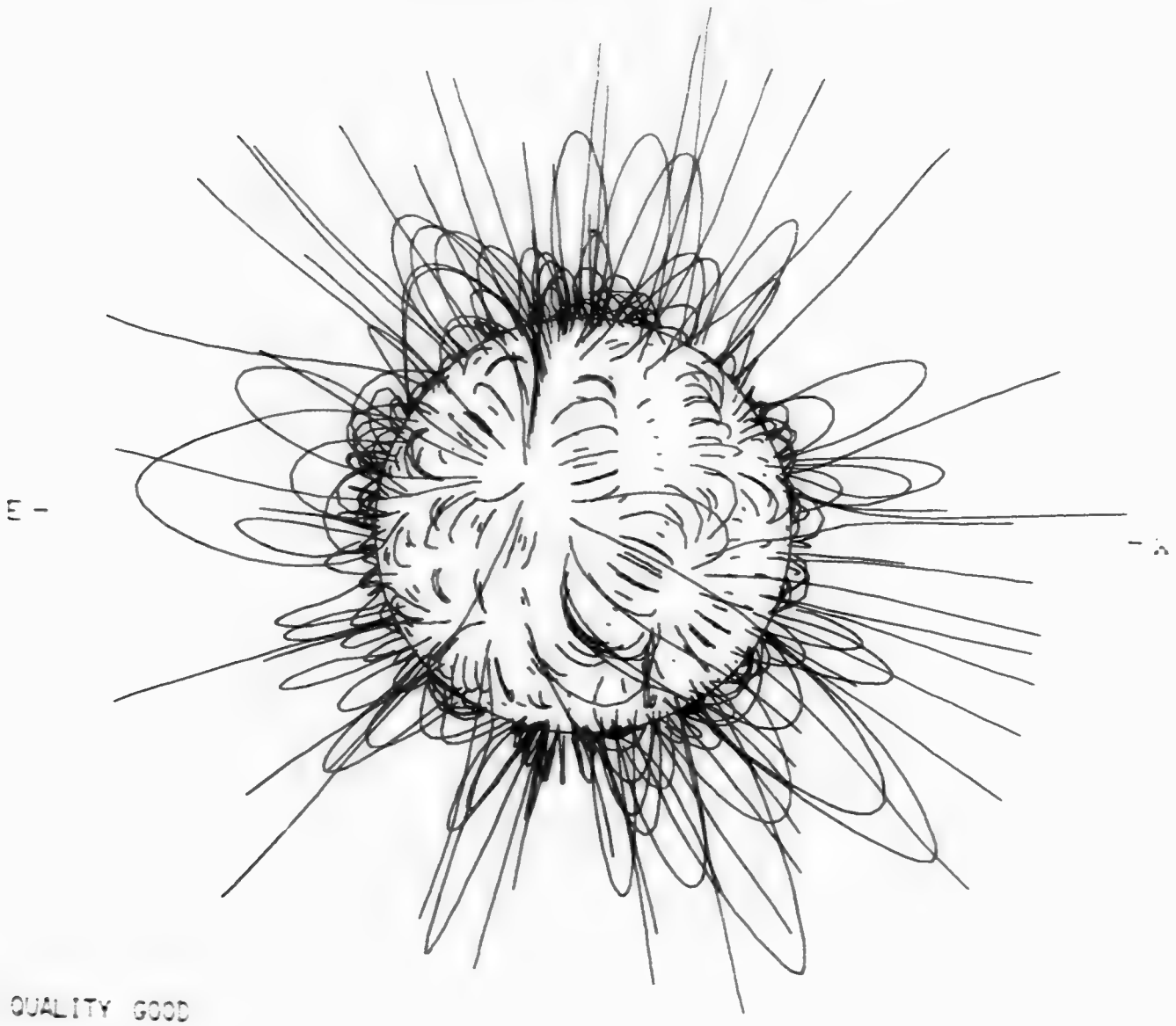
DATA WINDOW 1561.47

ROT. 1562 LONG. 311°

11.2 JUN 1972

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N



E

A

S

QUALITY GOOD

POLES DIRECT

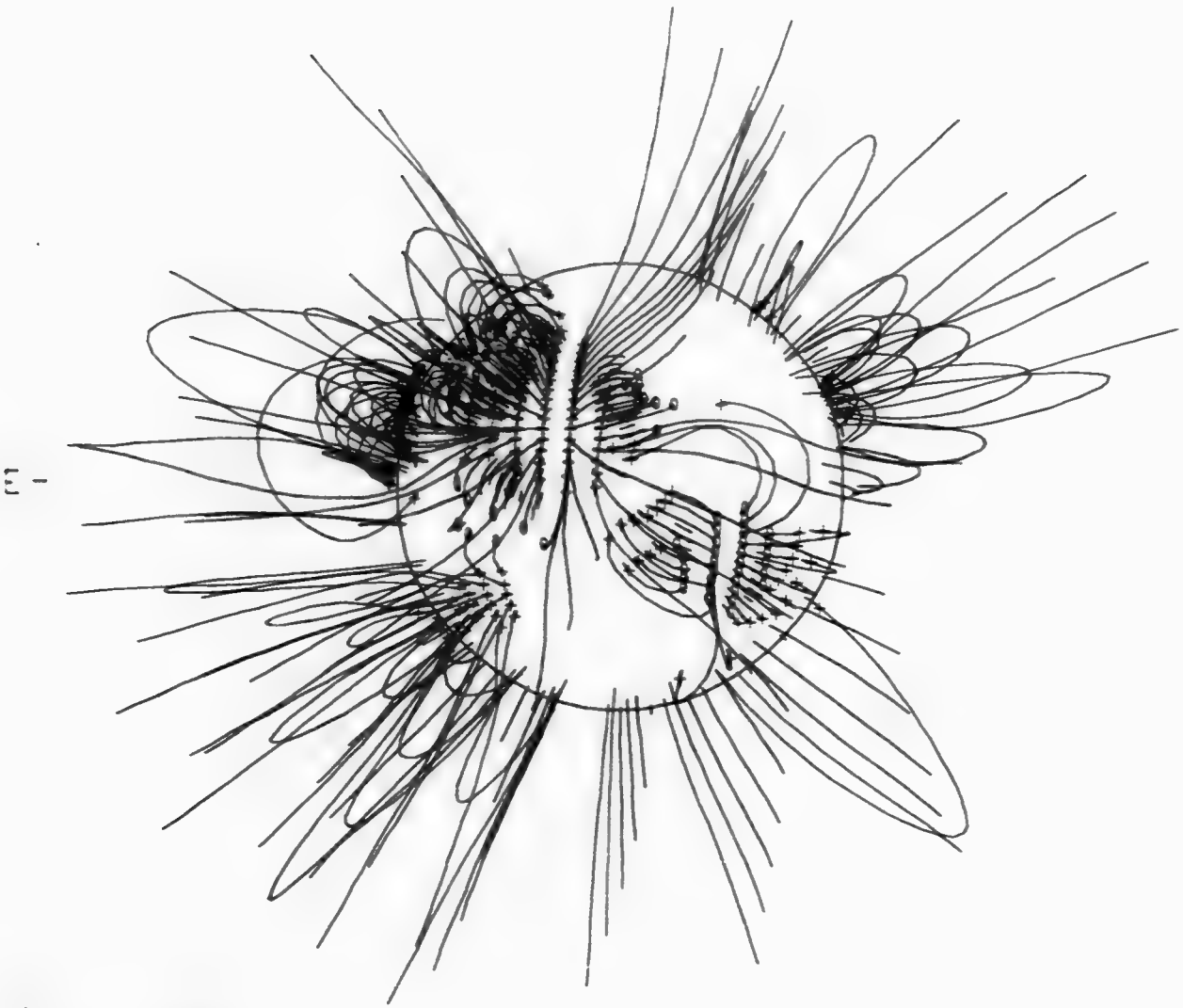
DATA WINDOW 1561.47

ROT. 1562 LONG. 291°

12.0 JUN 1970

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N



E

A

S

QUALITY GOOD

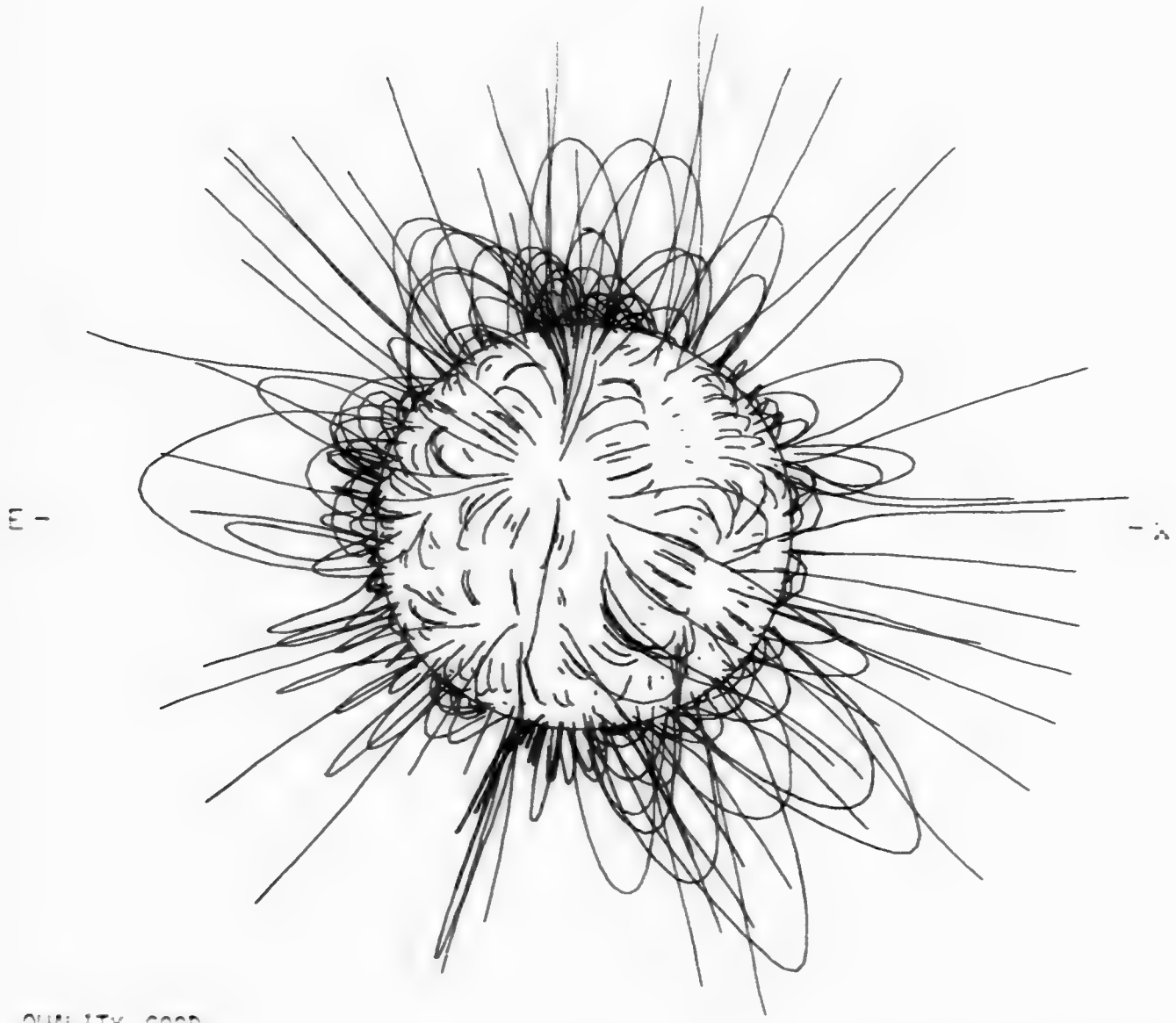
POLES DIRECT

DATA WINDOW 1561.4T

ROT. 1562 LONG. 291°

12.0 JUN 1970

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



QUALITY GOOD

POLES DIRECT

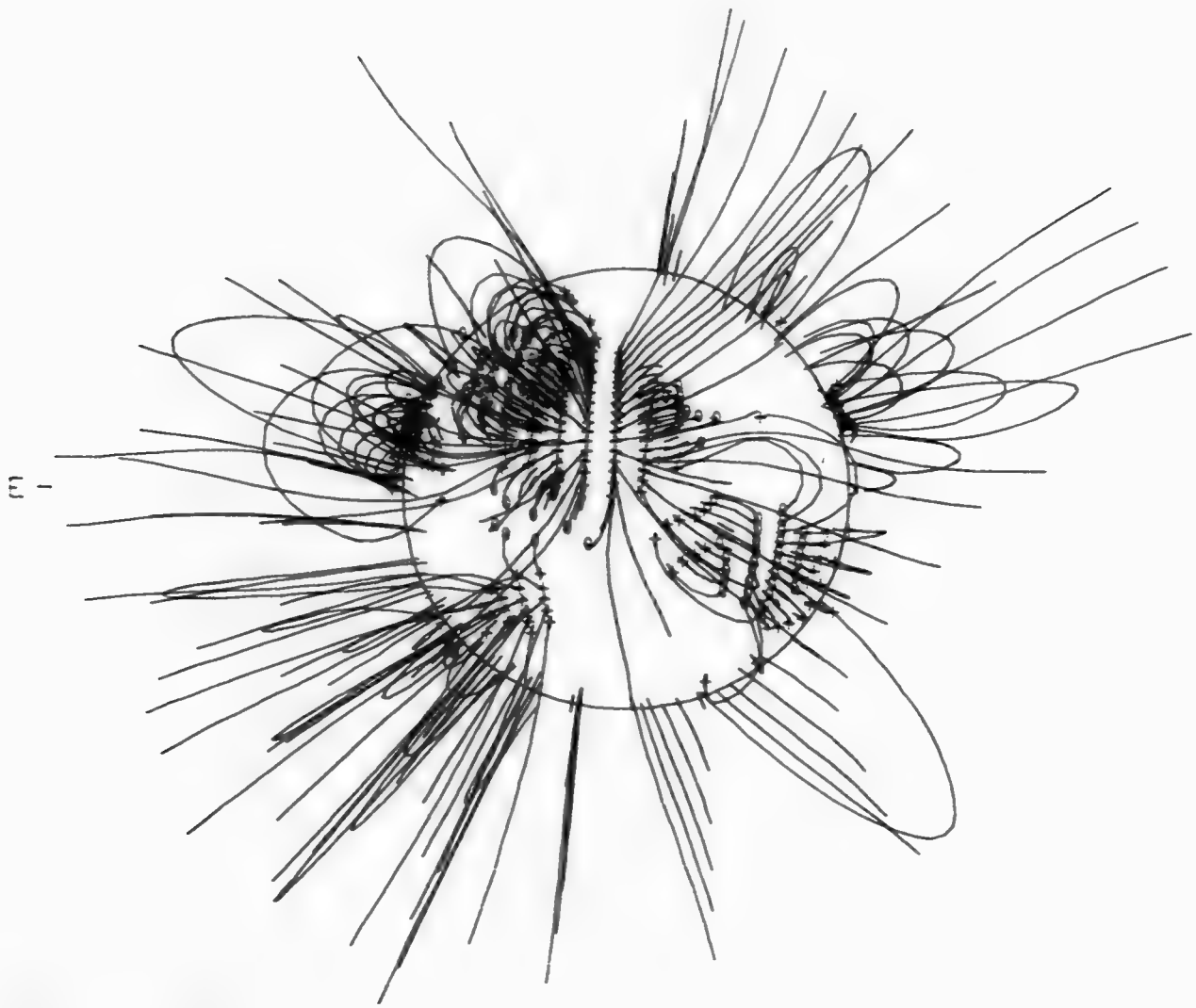
DATA WINDOW 1561.47

ROT. 1562 LONG. 281°

12.7 JUN 197?

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N



QUALITY GOOD

POLES DIRECT

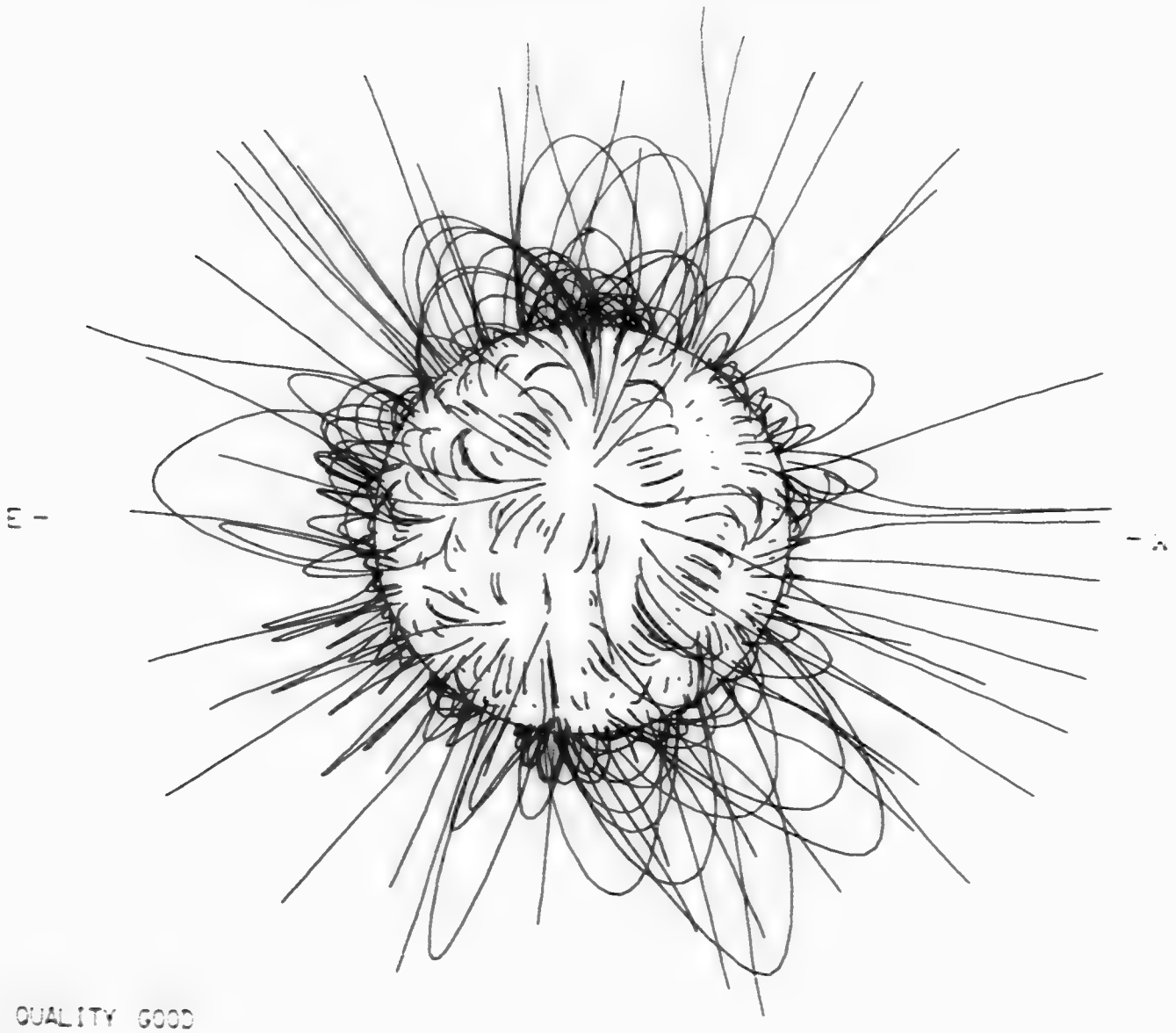
DATA WINDOW 1561.47

S

ROT. 1562 LONG. 291°

12.7 JUN 197[illegible]

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



QUALITY GOOD

POLES DIRECT

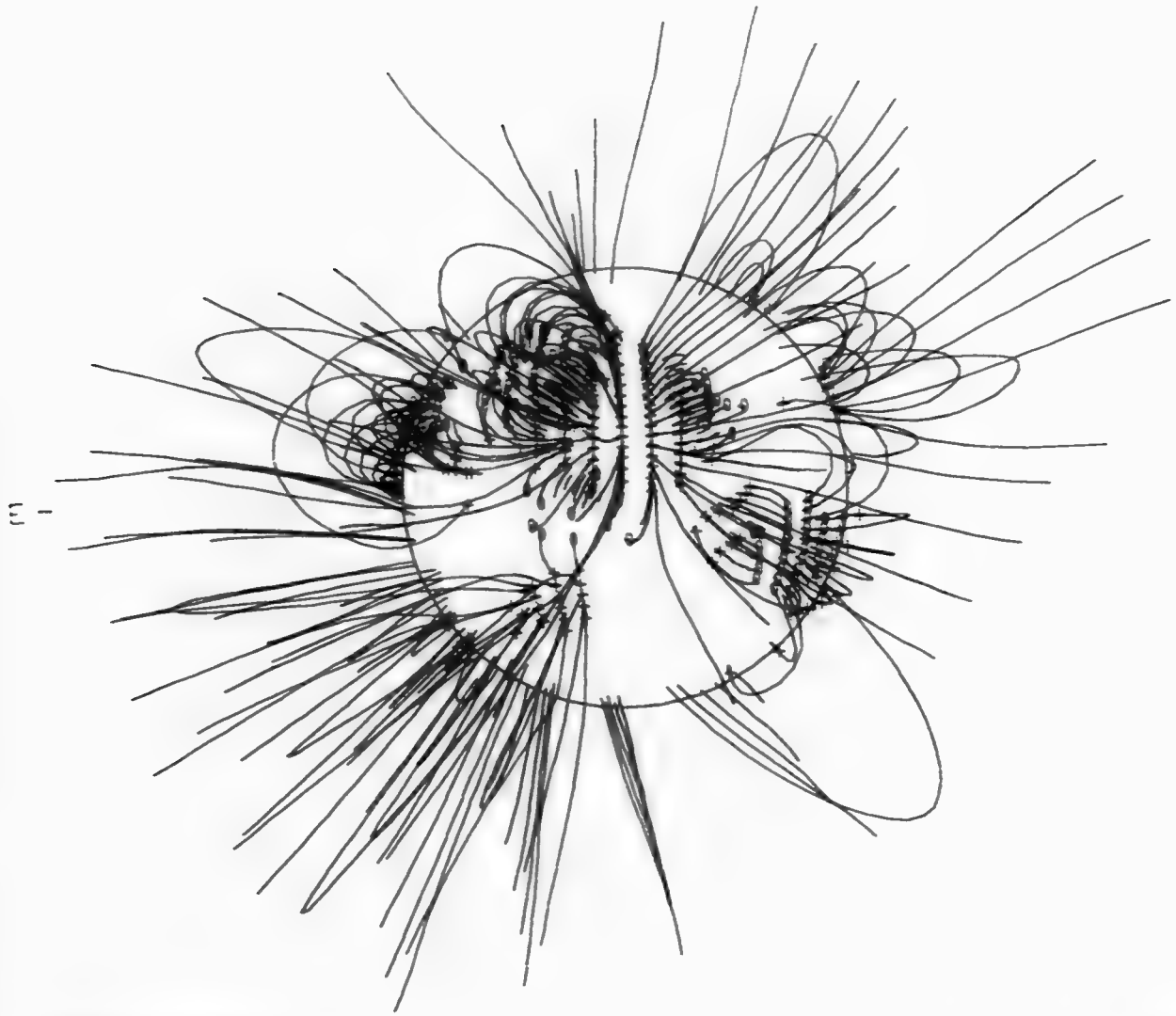
DATA WINDOW 1561.47

ROT. 1562 LONG. 27°

13.5 JUN 1970

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N



E

A

S

QUALITY GOOD

POLES DIRECT

DATA WINDOW 1561.47

ROT. 1562 LONG. 27°

13.5 JUN 1972

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N

E

A

S

QUALITY FAIR

POLES DIRECT

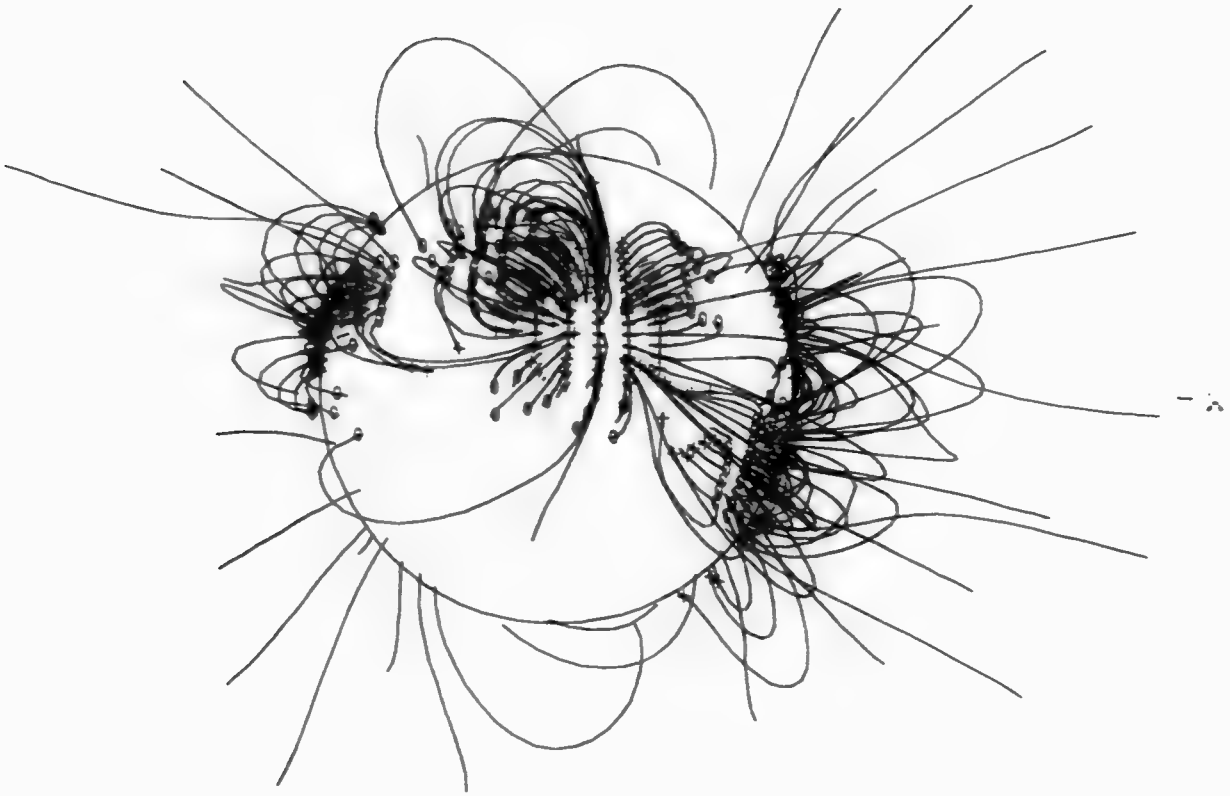
DATA WINDOW 1562.00

ROT. 1562 LONG. 261°

14.2 JUN 1970

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N



E

A

QUALITY FAIR

POLES DIRECT

DATA WINDOW 1562.00

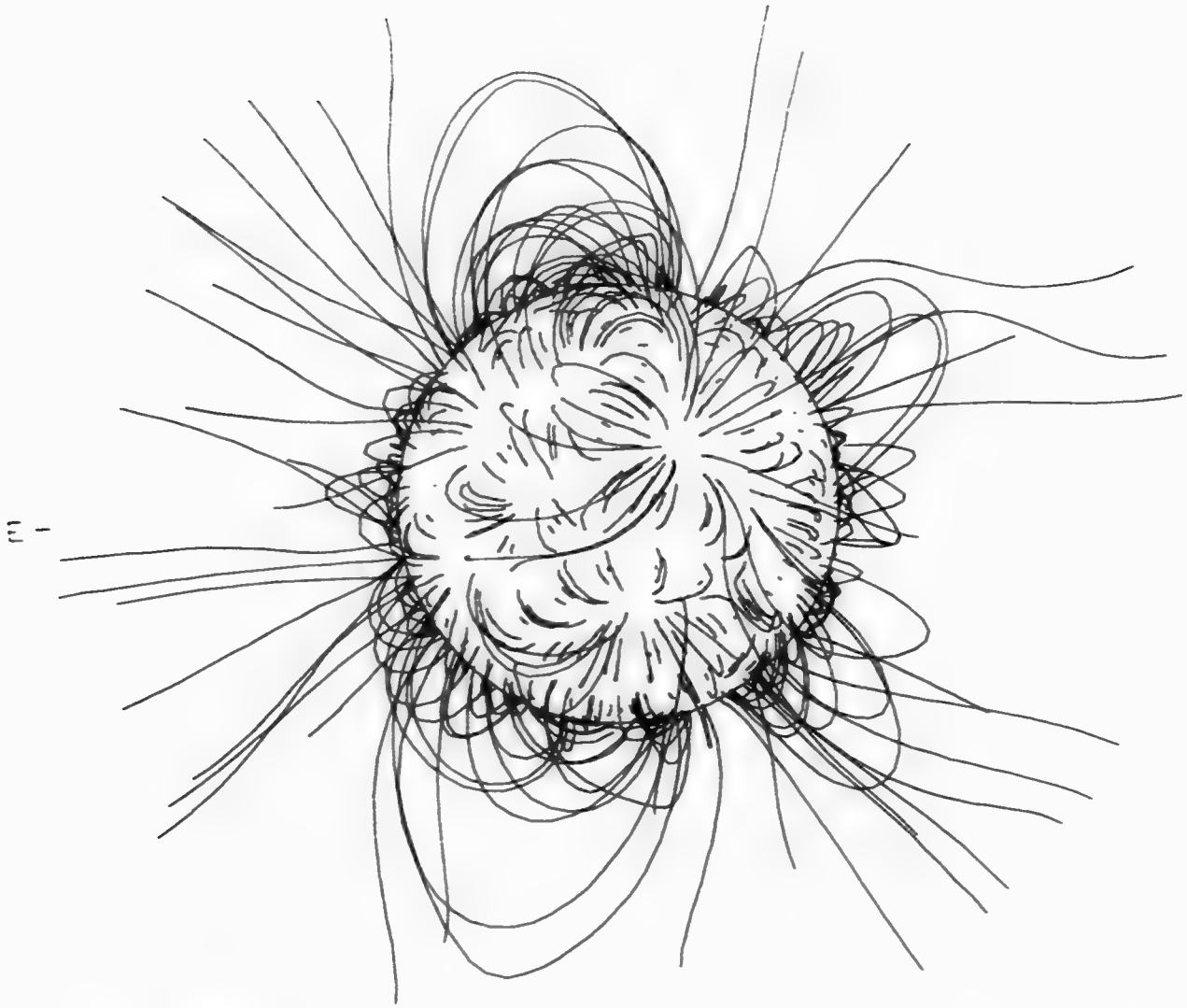
S

ROT. 1562 LONG. 261°

14.2 JUN 197[illegible]

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N



E

A

S

QUALITY FAIR

POLES DIRECT

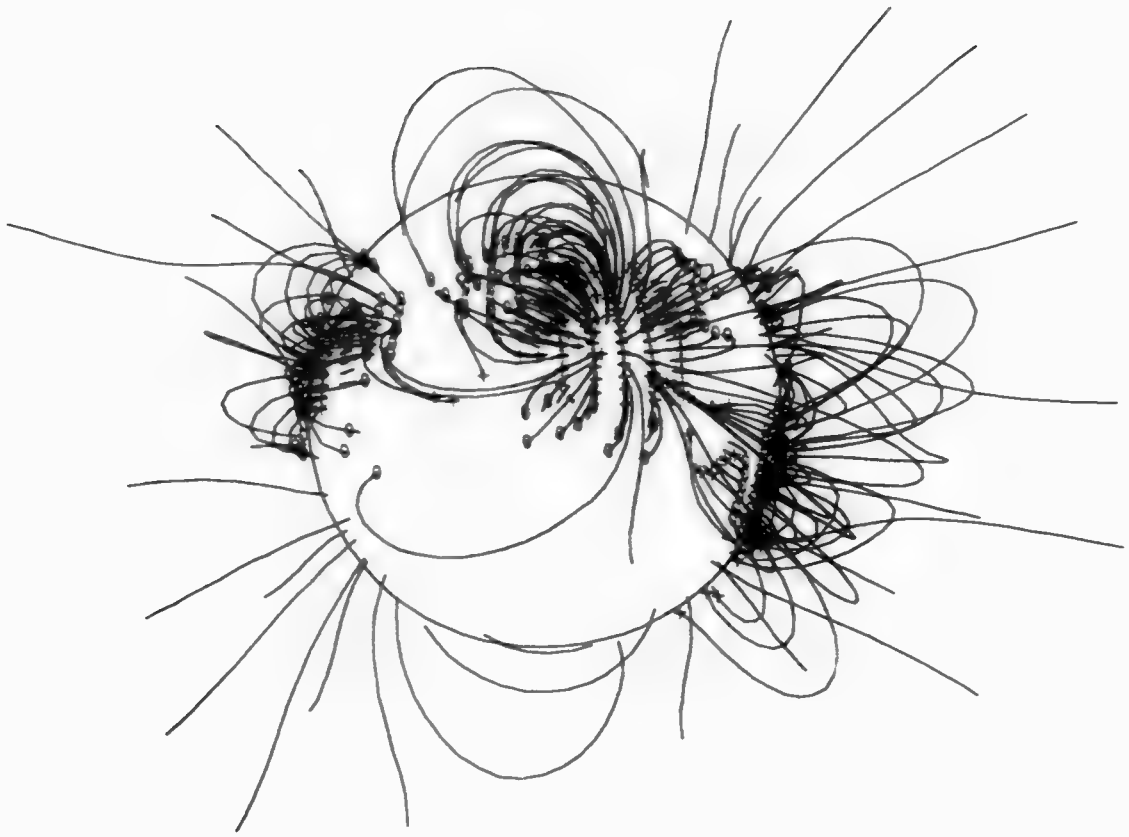
DATA WINDOW 1562.00

ROT. 1562 LONG. 25°

12.9 JUN 1970

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N



E

W

QUALITY FAIR

POLES DIRECT

DATA WINDOW 1562.00

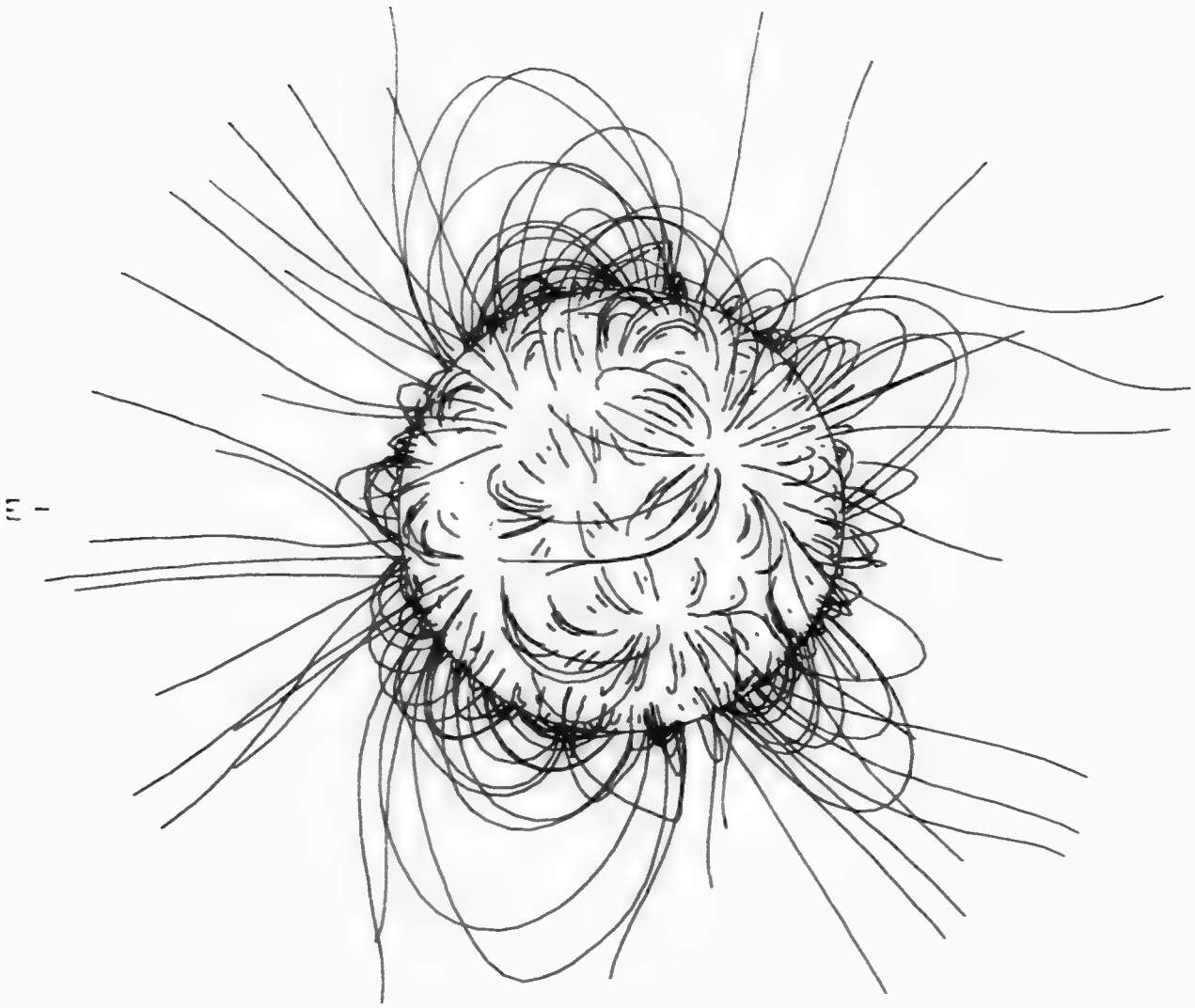
S

ROT. 1562 LONG. 25[illegible]

14.9 [illegible]N 197[illegible]

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N



E

A

QUALITY FAIR

POLES DIRECT

DATA WINDOW 1562.00

S

ROT. 1562 LONG. 241°

15.7 JUN 1970

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N

E -

- A

QUALITY FAIR

POLES DIRECT

DATA WINDOW 1562.00

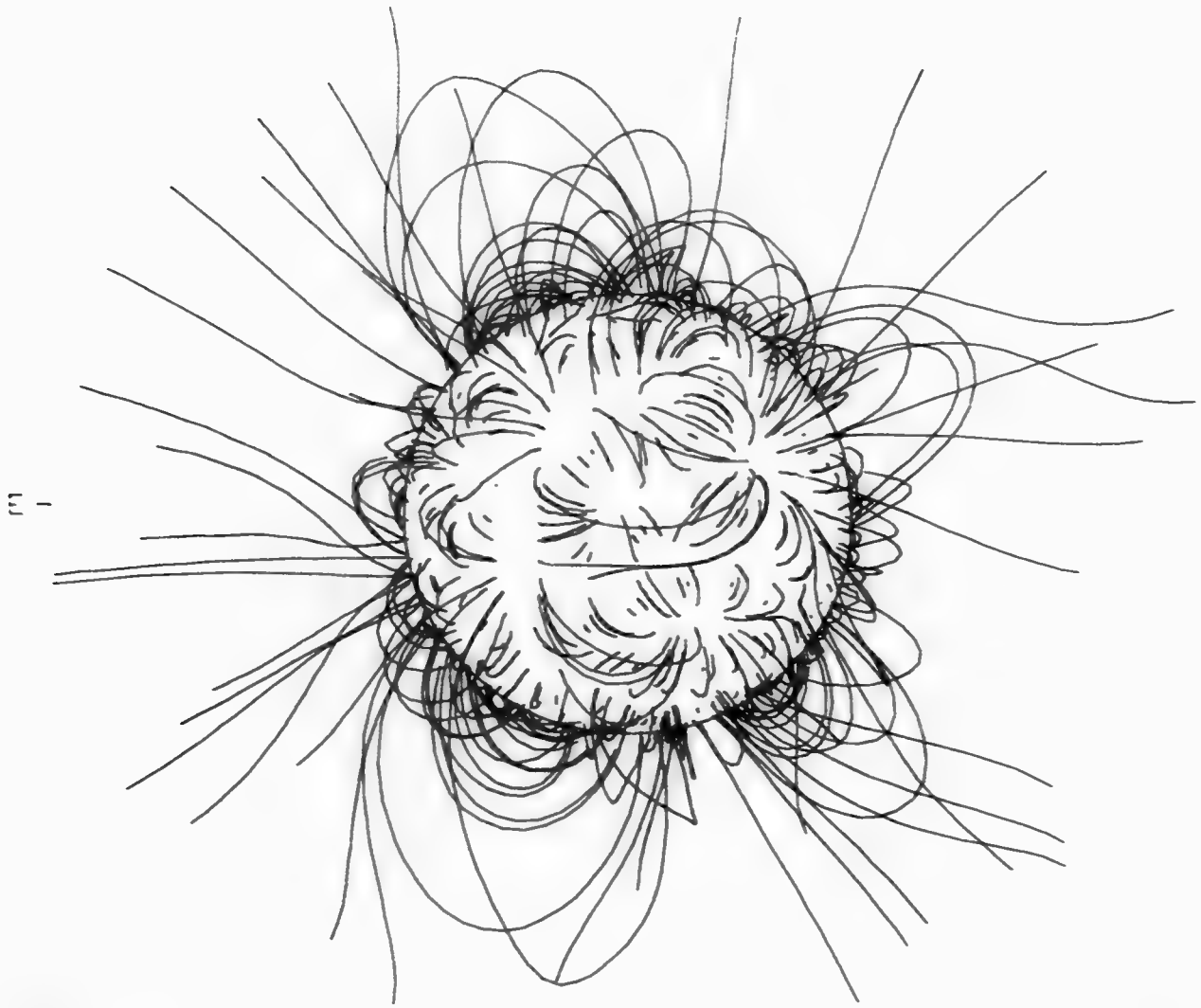
S

ROT. 1562 LONG. 240°

15.7 JUN 1973

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N



E

A

QUALITY FAIR

POLES DIRECT

DATA WINDOW 1562.00

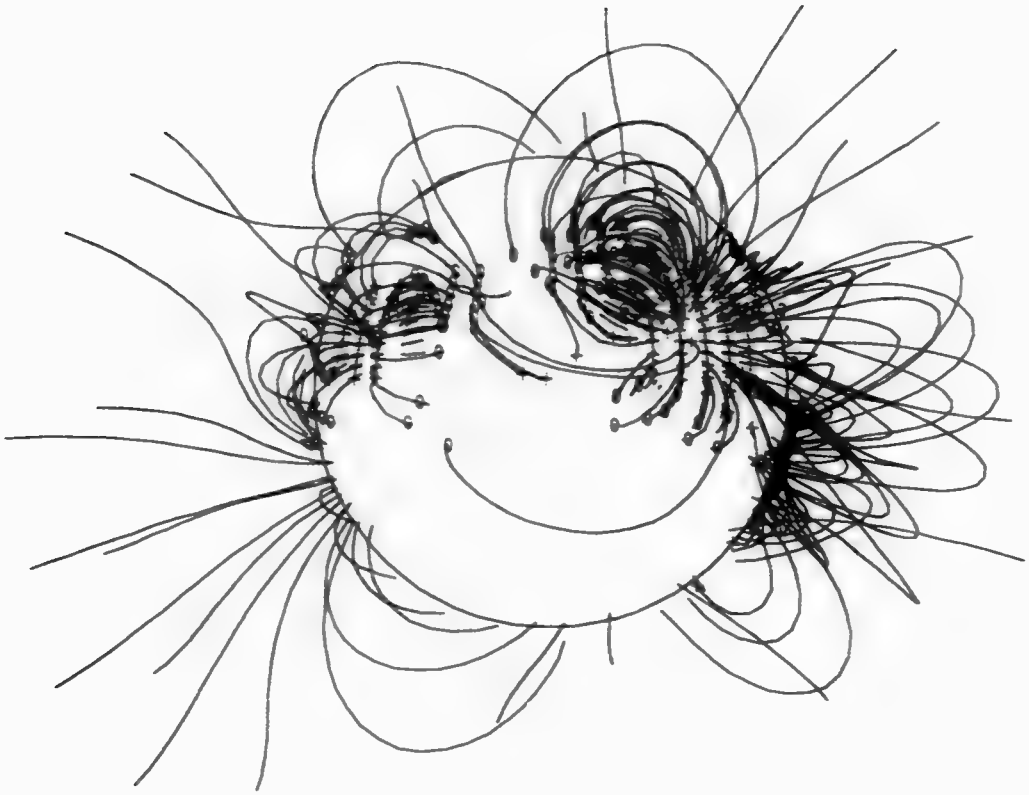
S

ROT. 1562 LONG. 251°

16.5 JUN 1970

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N



E

QUALITY FAIR

POLES DIRECT

DATA WINDOW 1562.00

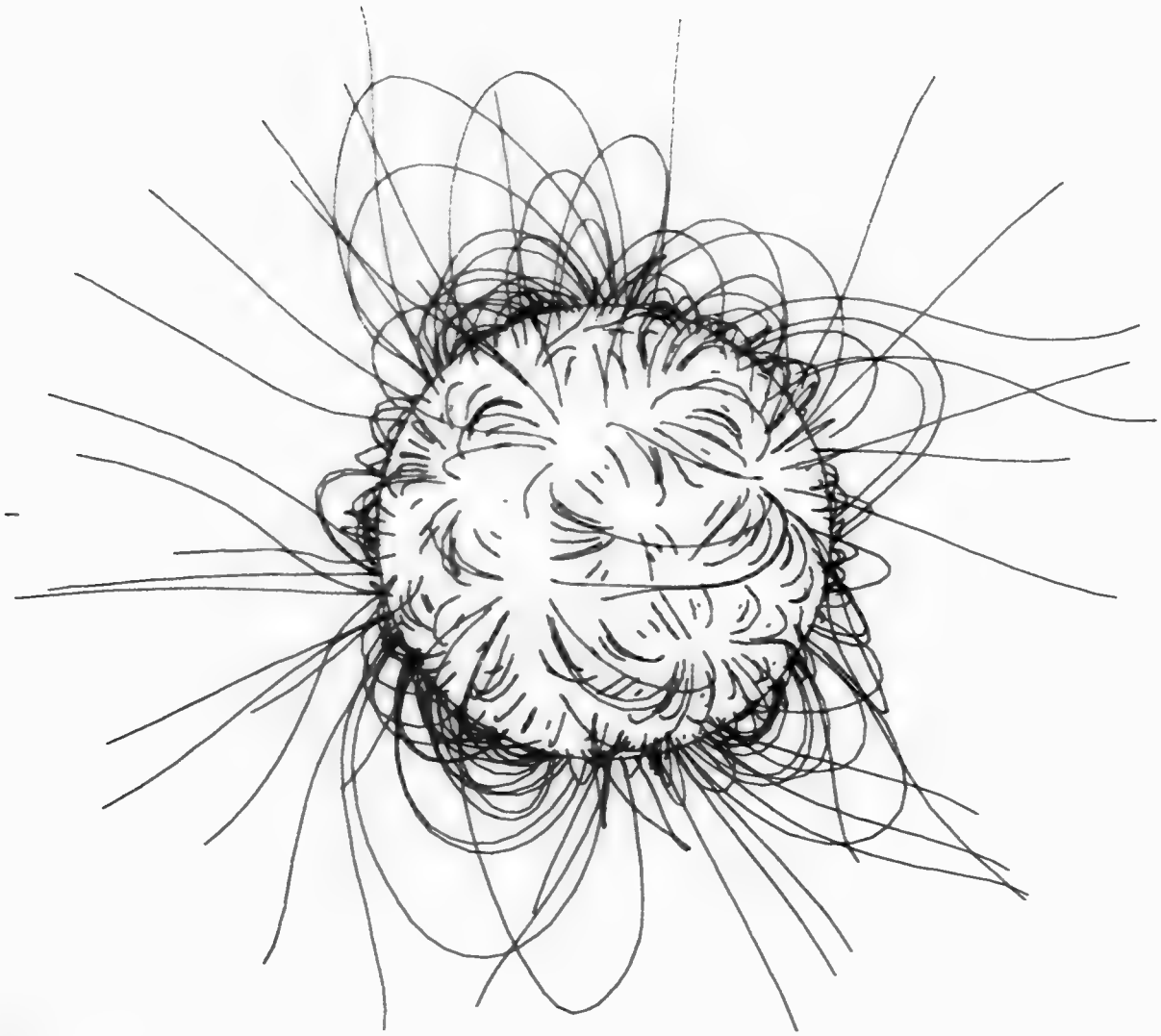
S

ROT. 1562 LONG. 251°

16.5 JUN 1970

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N



E

W

S

QUALITY FAIR

POLES DIRECT

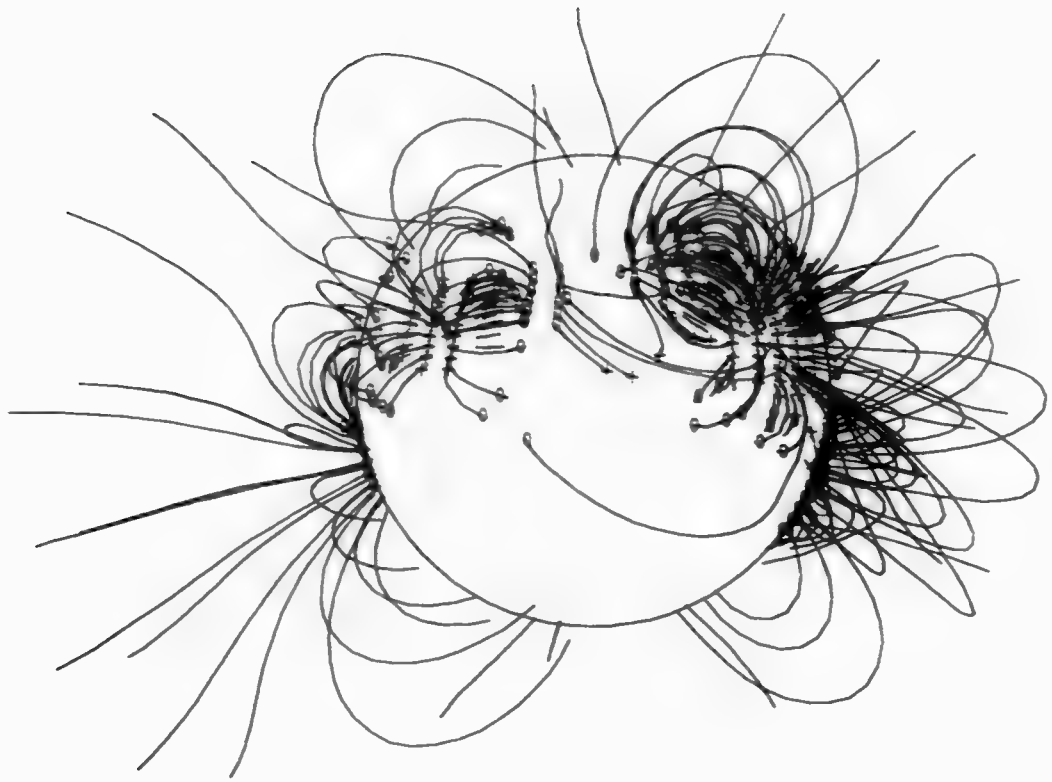
DATA WINDOW 1562.00

ROT. 1562 LONG. 22[illegible]°

17.2 JUN 197[illegible]

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N



E

A

QUALITY FAIR

POLES DIRECT

DATA WINDOW 1562.00

S

ROT. 1562 LONG. 22[illegible]°

17.2 JUN 1970

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N

E

QUALITY FAIR

POLES DIRECT

DATA WINDOW 1562.00

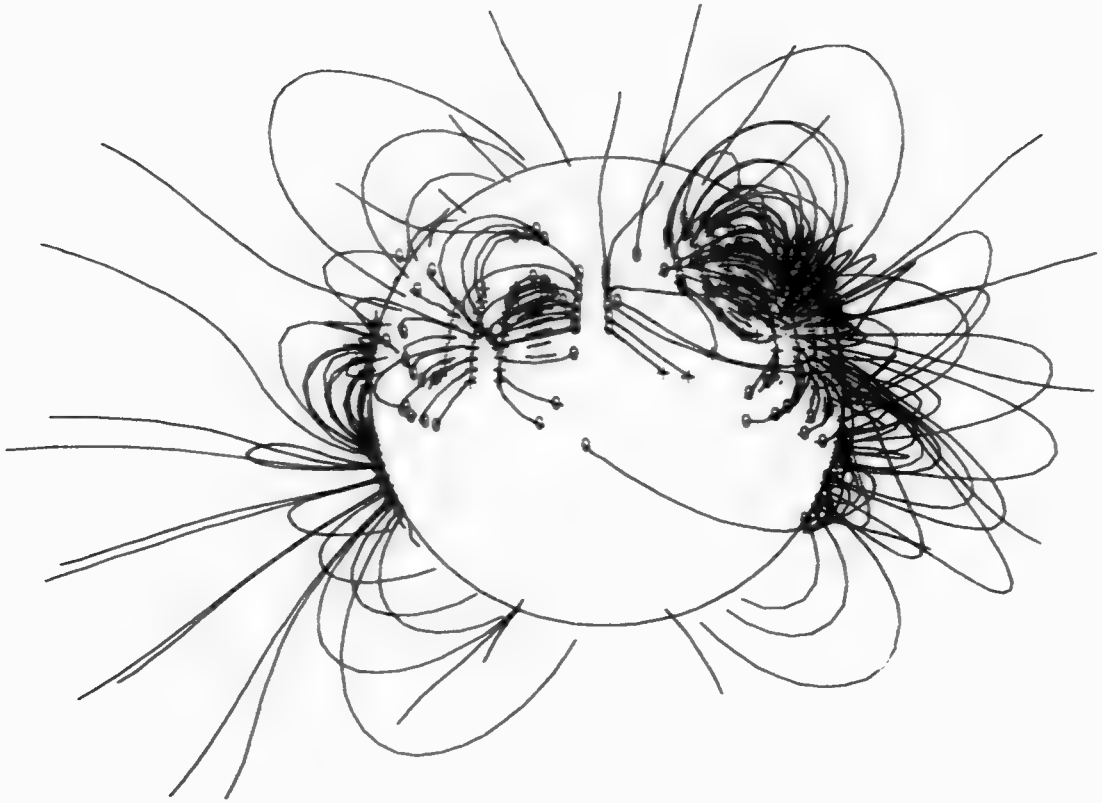
S

ROT. 1562 LONG. 210°

18.0 JUN 1970

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N



E

A

QUALITY FAIR

POLES DIRECT

DATA WINDOW 1562.00

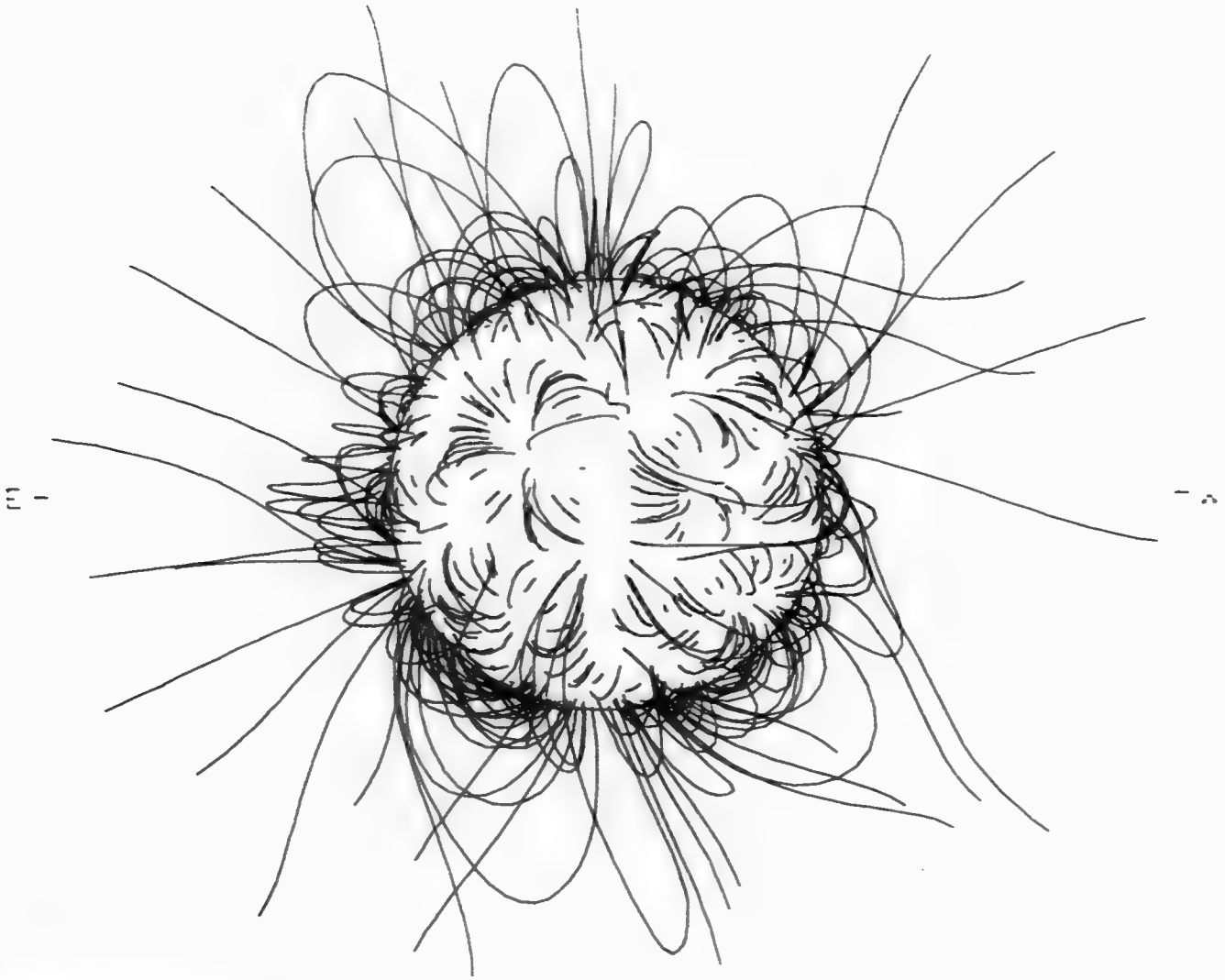
S

ROT. 1562 LONG. 21°

18.0 JUN 1970

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N



E

A

QUALITY FAIR

POLES DIRECT

DATA WINDOW 1562.00

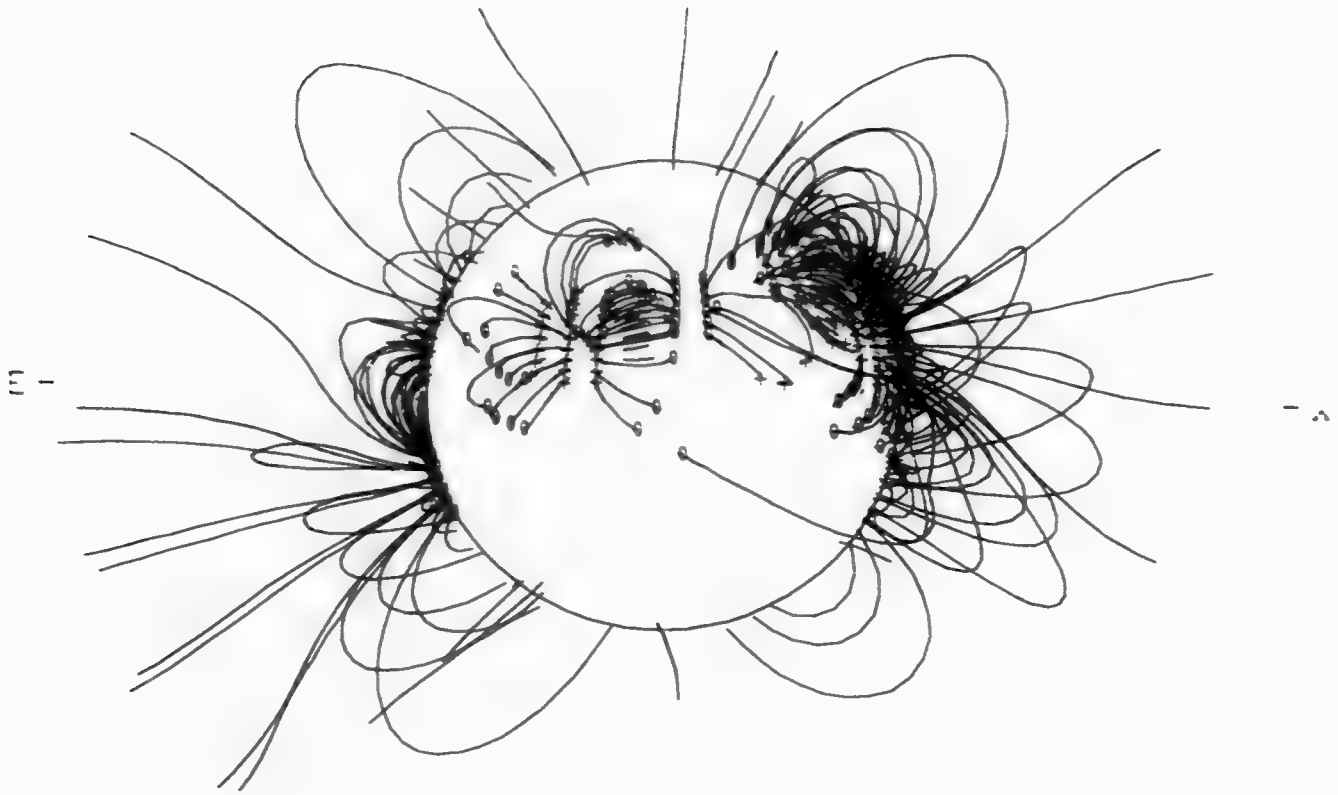
S

ROT. 1562 LONG. 3[illegible]°

18.7 JUN 197[illegible]

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N



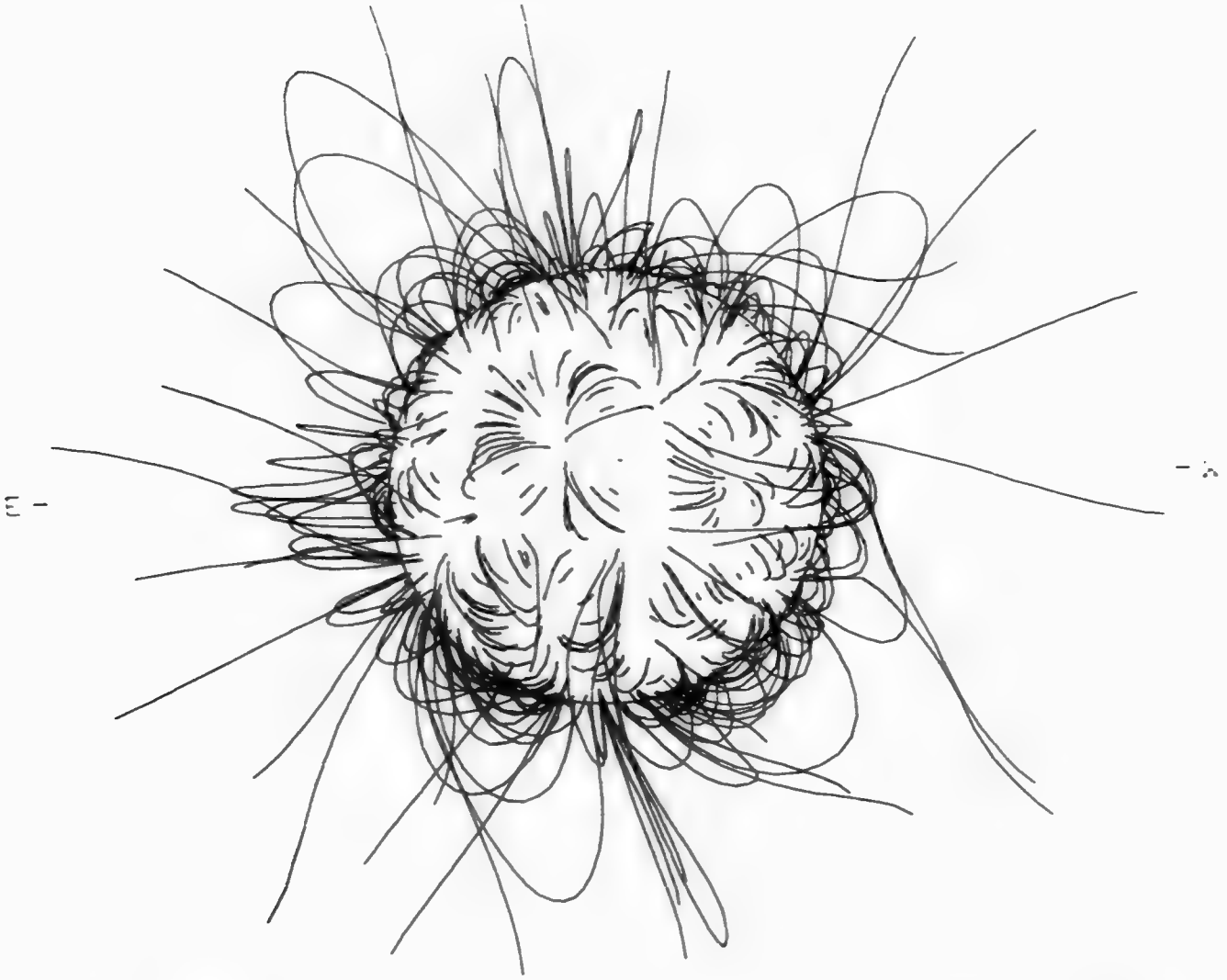
QUALITY FAIR
POLES DIRECT
DATA WINDOW 1562.00

S

ROT. 1562 LONG. 200°
18.7 JUN 1973

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N



E

A

QUALITY FAIR

POLES DIRECT

DATA WINDOW 1562.00

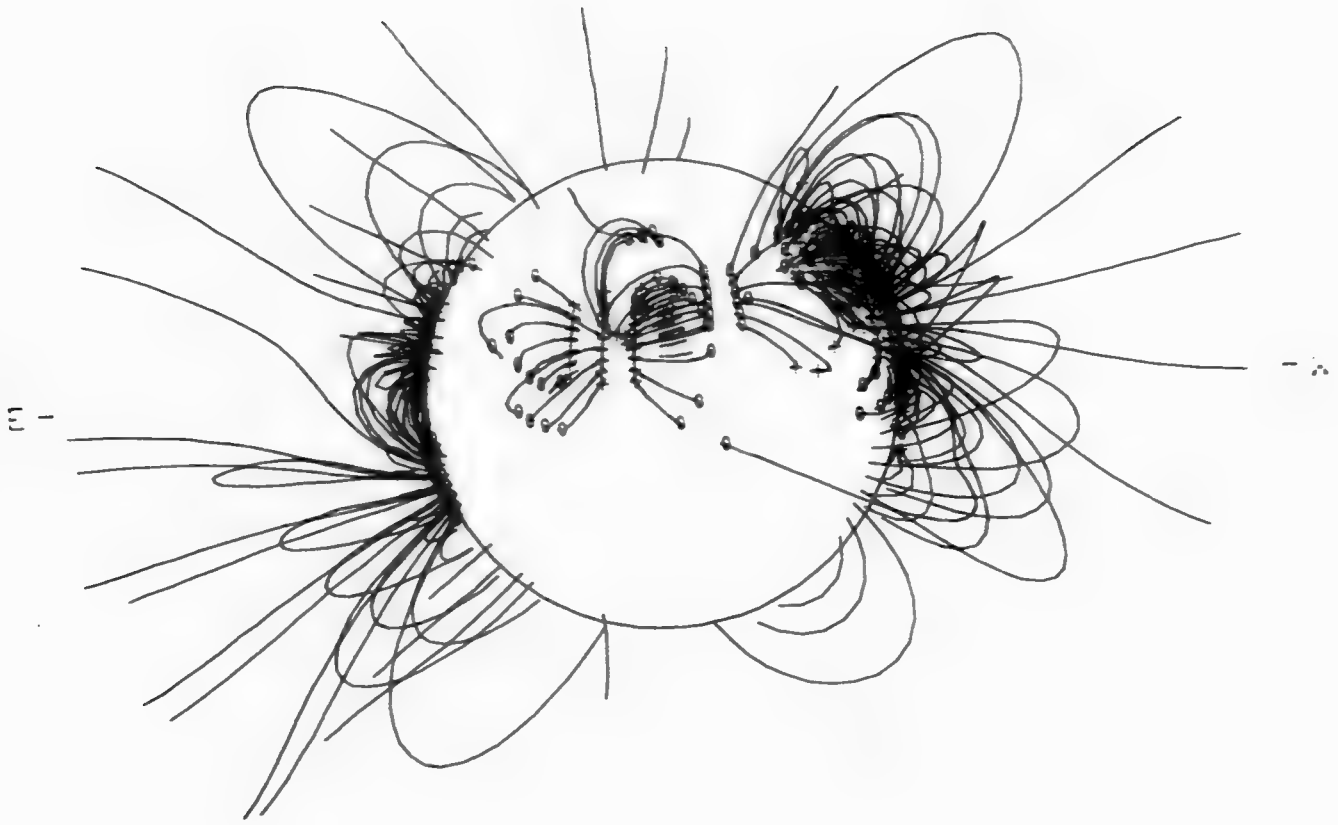
S

ROT. 1562 LONG. 19°

19.5 JUN 197

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N



QUALITY FAIR

POLES DIRECT

DATA WINDOW 1562.00

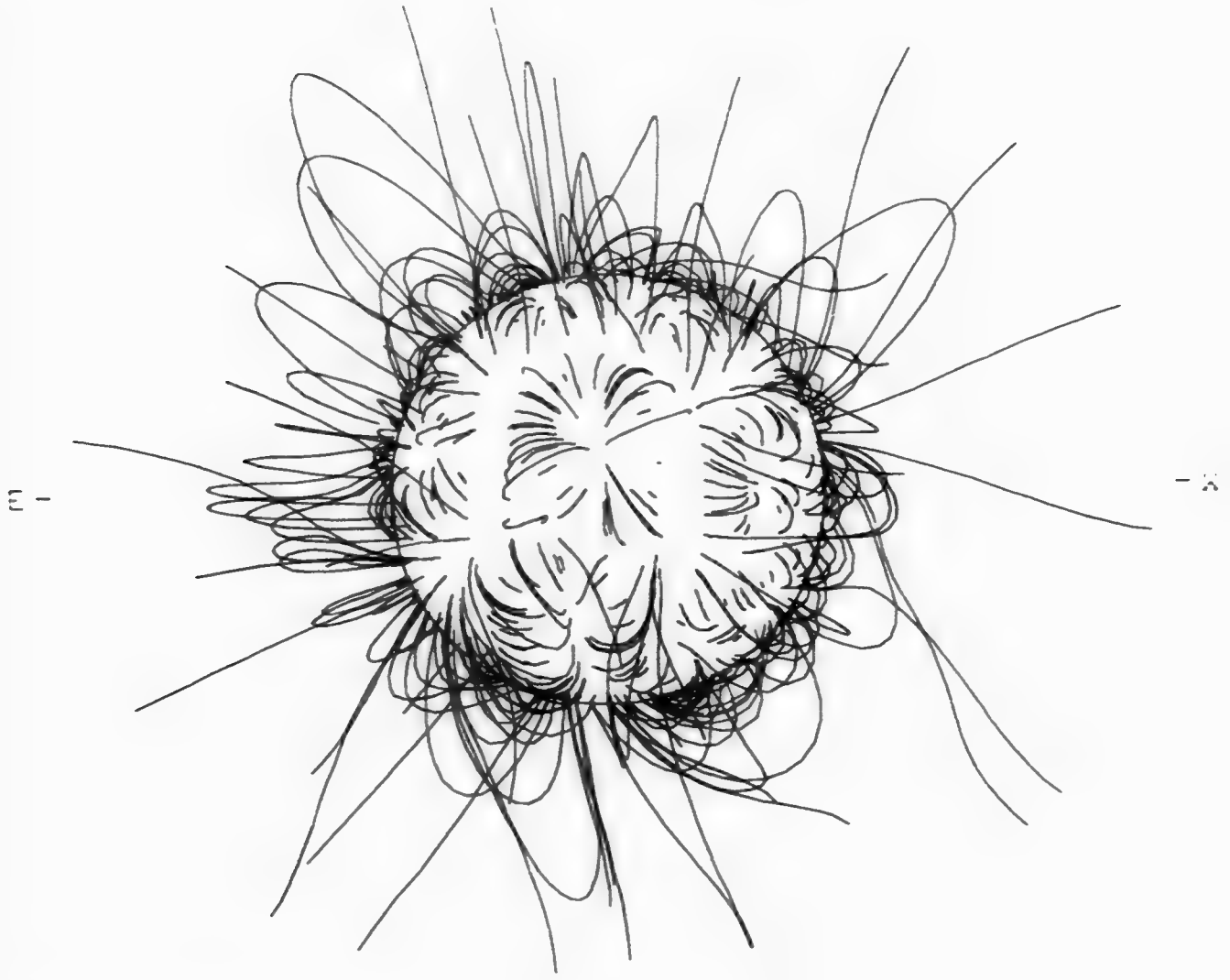
S

ROT. 1562 LONG. 19°

19.5 JUN 197[illegible]

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N



E

X

QUALITY FAIR

POLES DIRECT

DATA WINDOW 1562.00

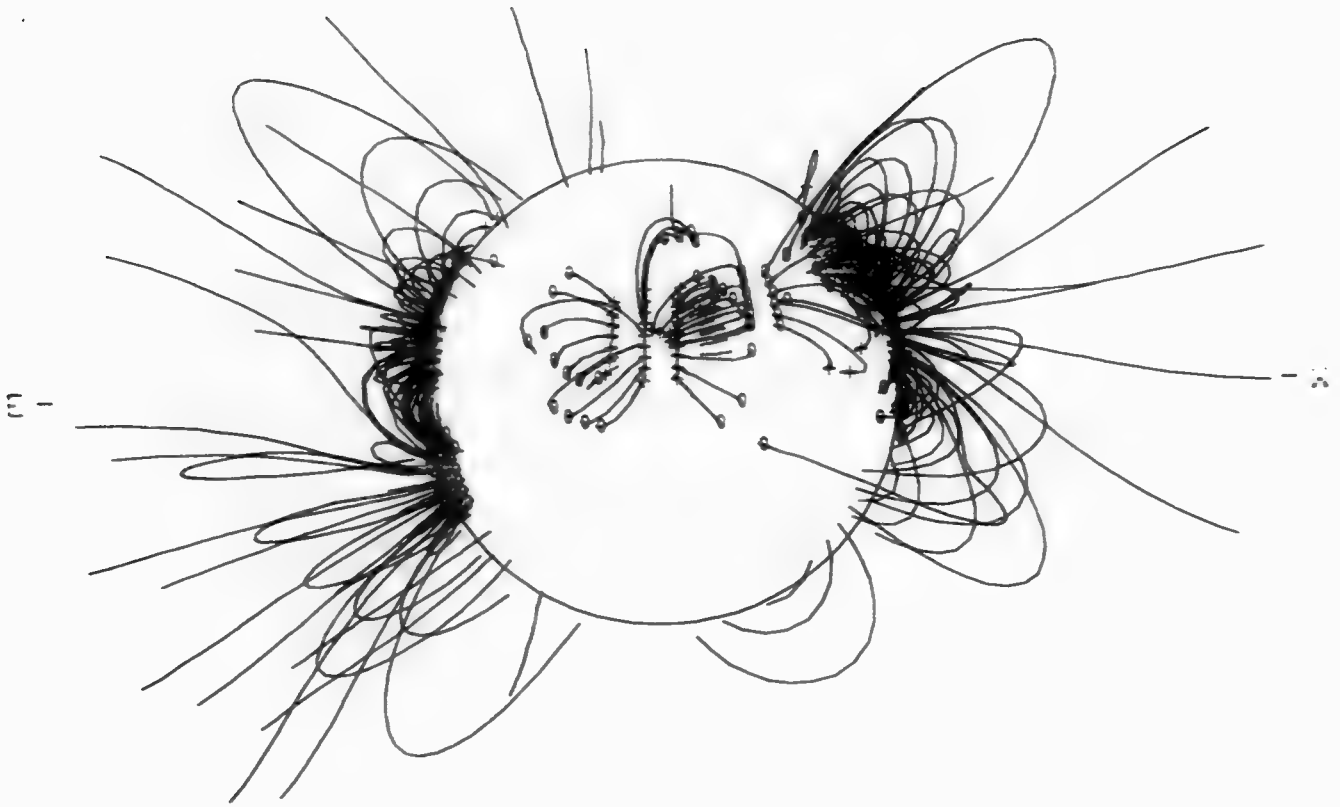
S

ROT. 1562 LONG. 180°

20.5 JUN 1970

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N



S

QUALITY FAIR

POLES DIRECT

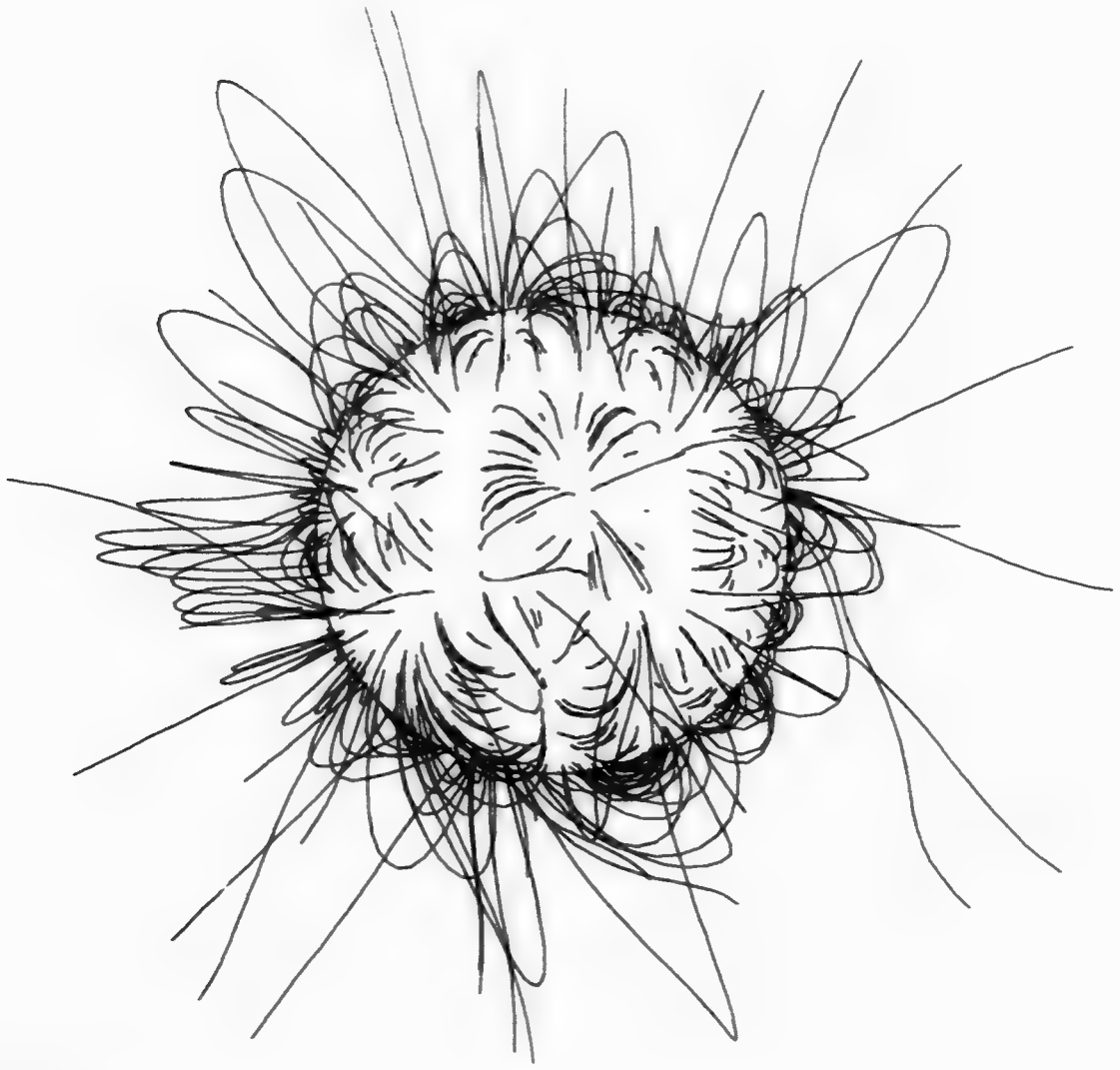
DATA WINDOW 1562.00

ROT. 1562 LONG. 181°

20.3 JUN 1970

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N



E –

– A

QUALITY FAIR

POLES DIRECT

DATA WINDOW 1562.00

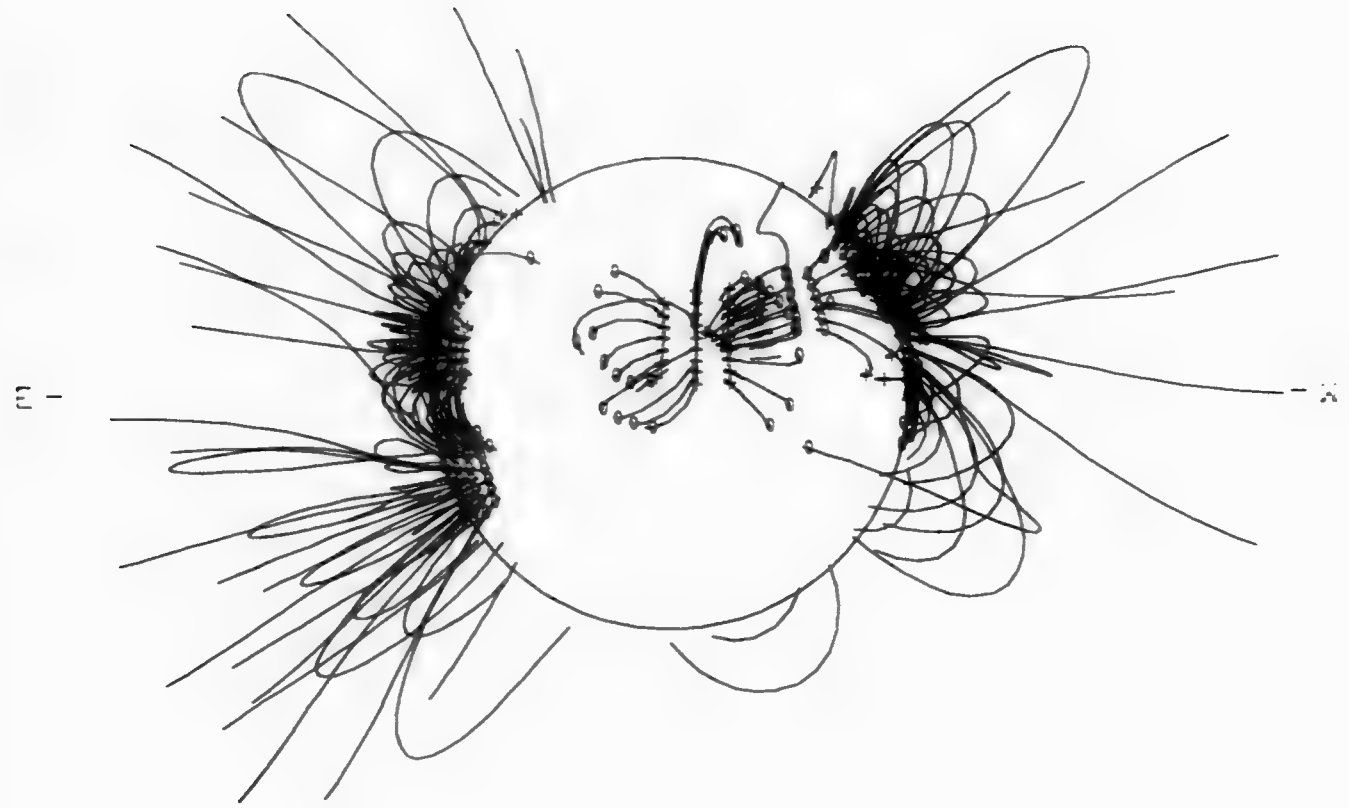
S

ROT. 1562 LONG. 17°

21.0 JUN 197[illegible]

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N



QUALITY FAIR

POLES DIRECT

DATA WINDOW 1562.00

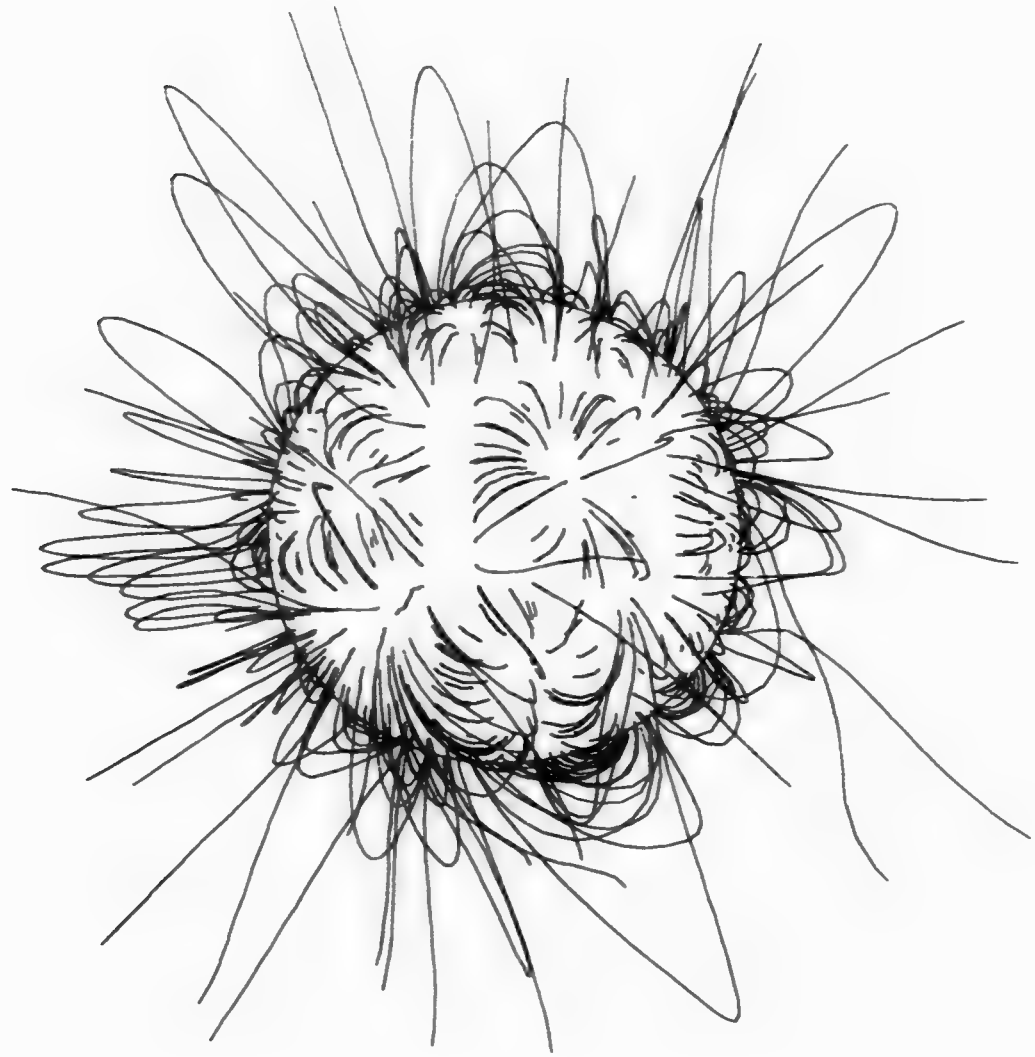
S

ROT. 1562 LONG. 17°

21.0 JUN 197[illegible]

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N



E

A

S

QUALITY FAIR

POLES DIRECT

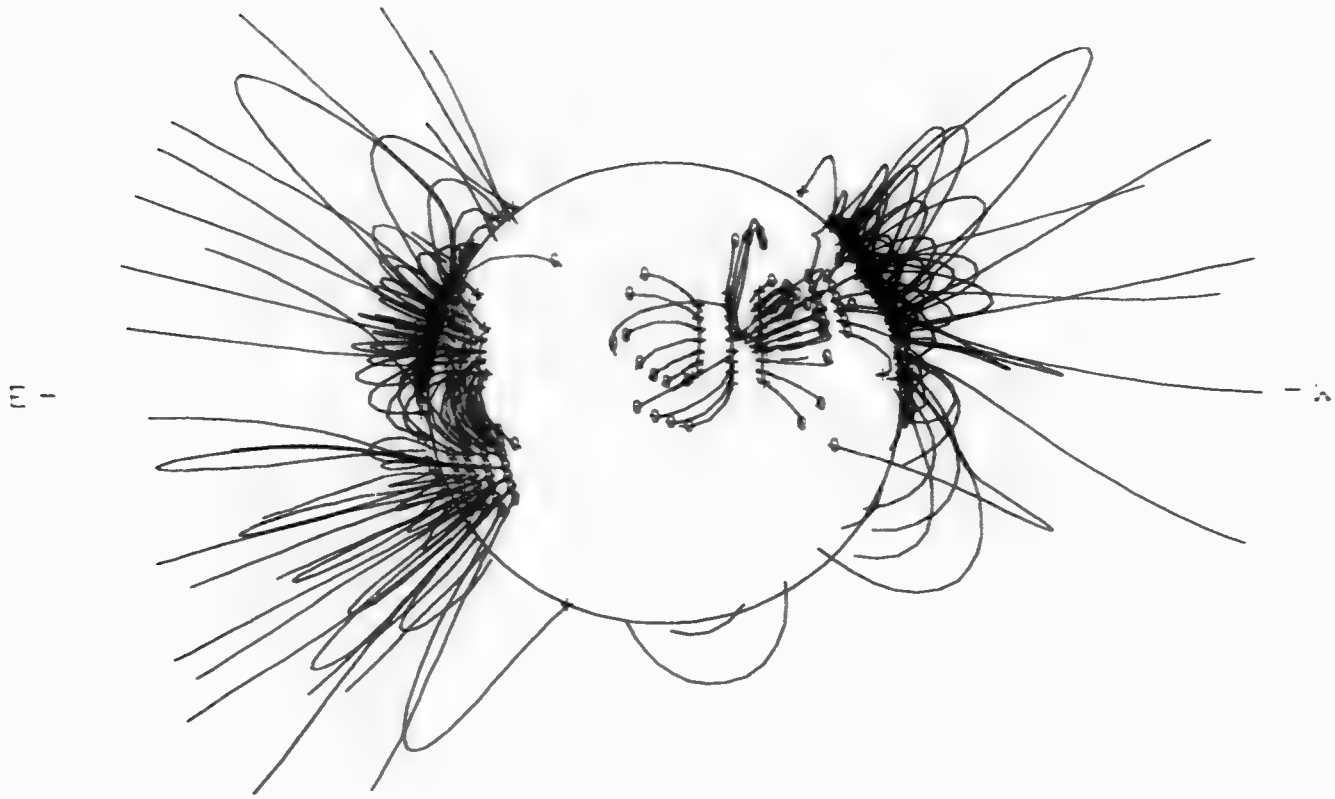
DATA WINDOW 1562.00

ROT. 1562 LONG. 160°

21.8 JUN 1970

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N



QUALITY FAIR

POLES DIRECT

DATA WINDOW 1562.00

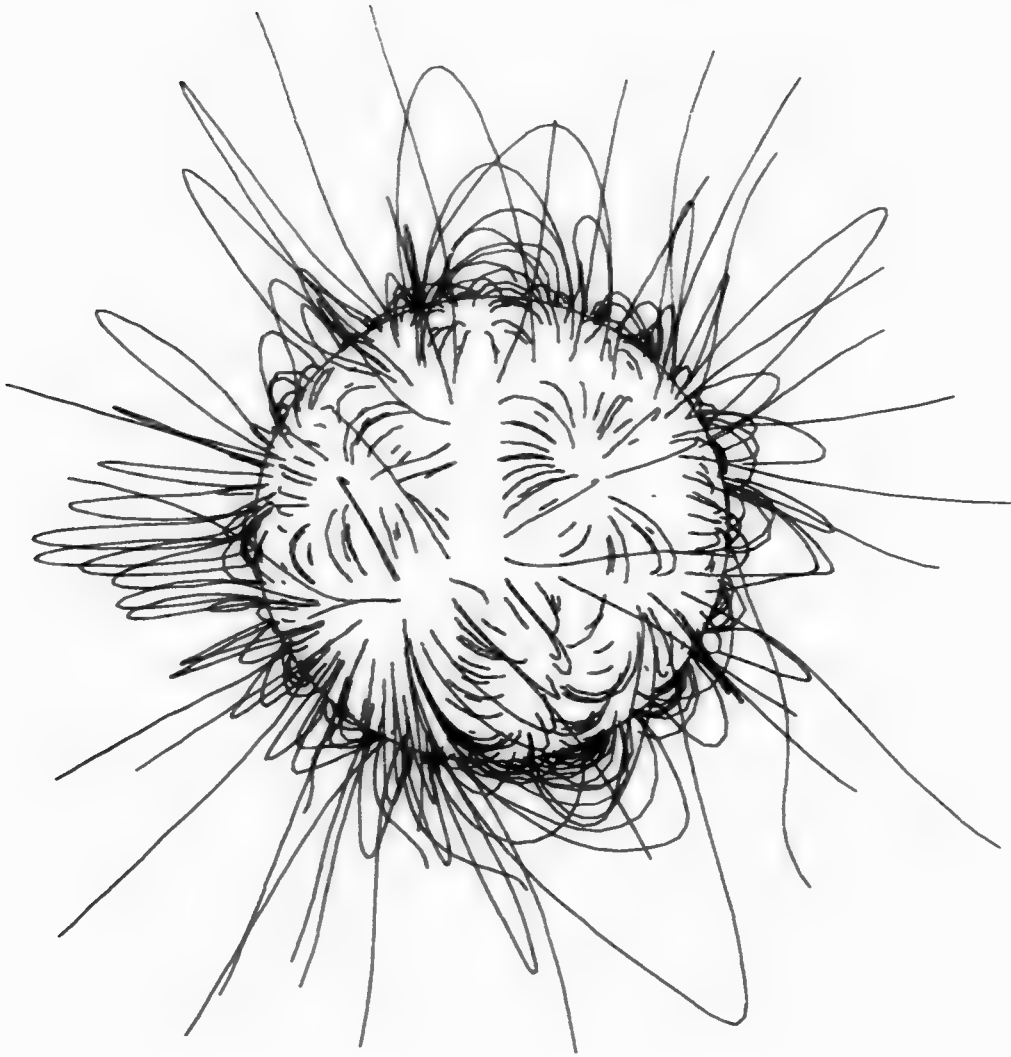
S

ROT. 1562 LONG. 16[illegible]°

21.8 JUN 197[illegible]

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N



E

A

QUALITY FAIR

POLES DIRECT

DATA WINDOW 1562.00

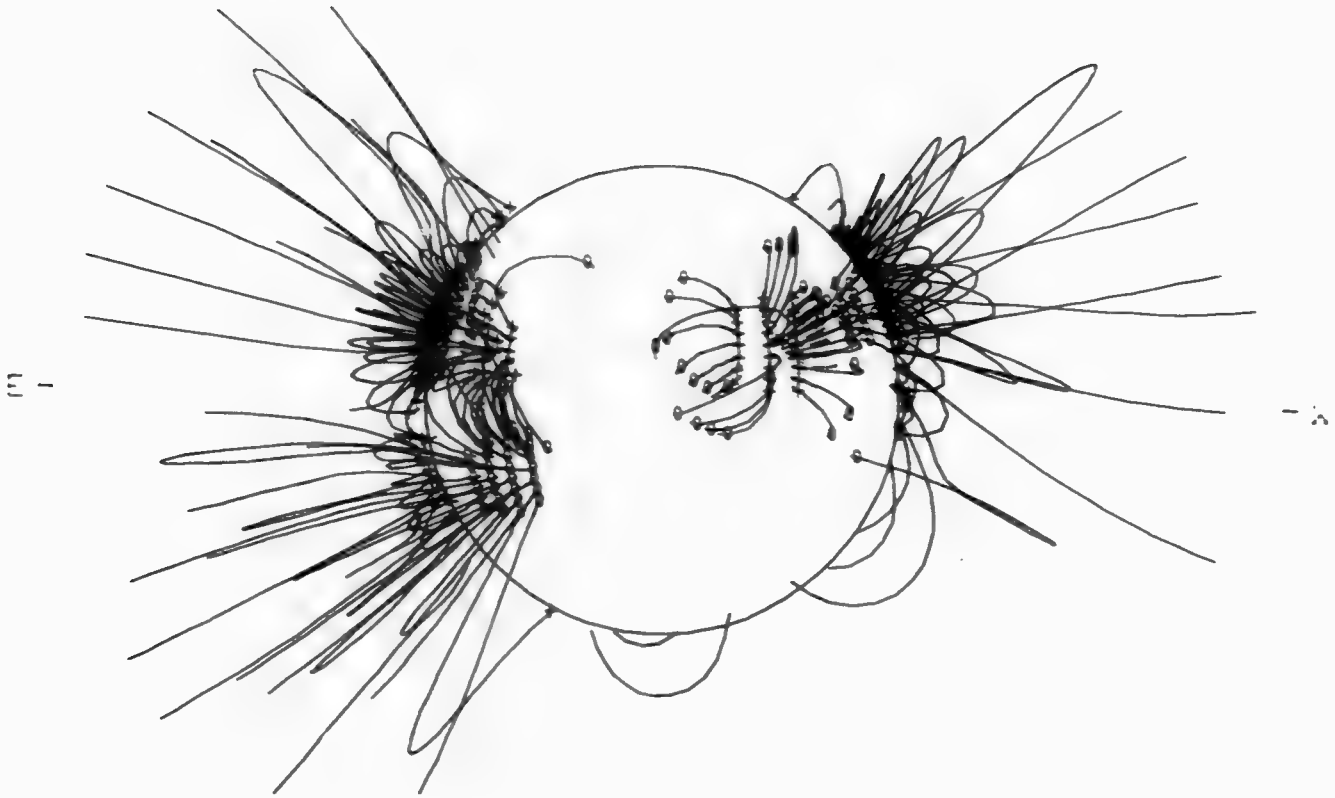
S

ROT. 1562 LONG. 150°

22.5 JUN 1970

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N



E

A

QUALITY FAIR

POLES DIRECT

DATA WINDOW 1562.00

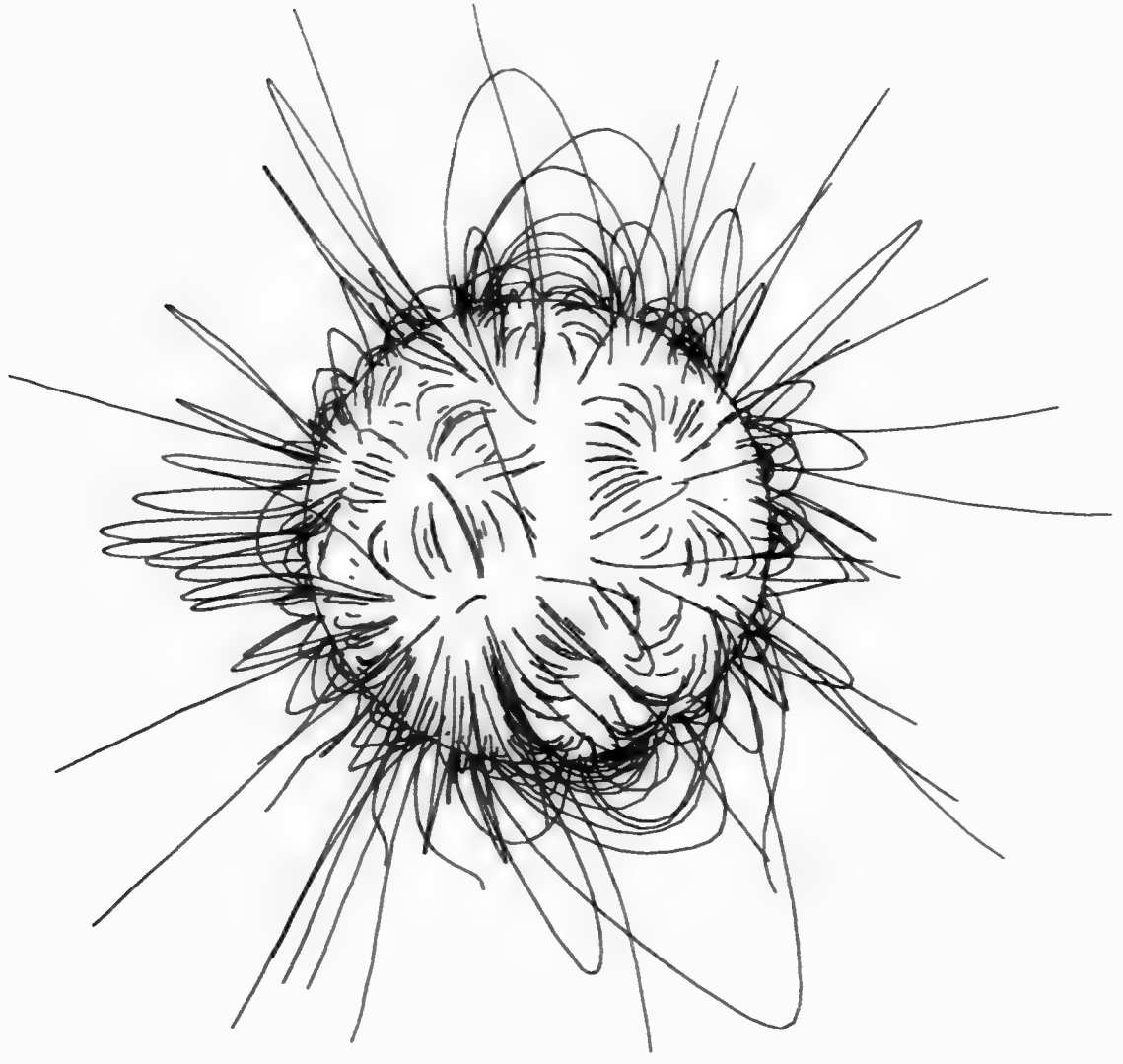
S

ROT. 1562 LONG. 15[illegible]

22.5 JUN 19[illegible]

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N



E

S

QUALITY FAIR

POLES DIRECT

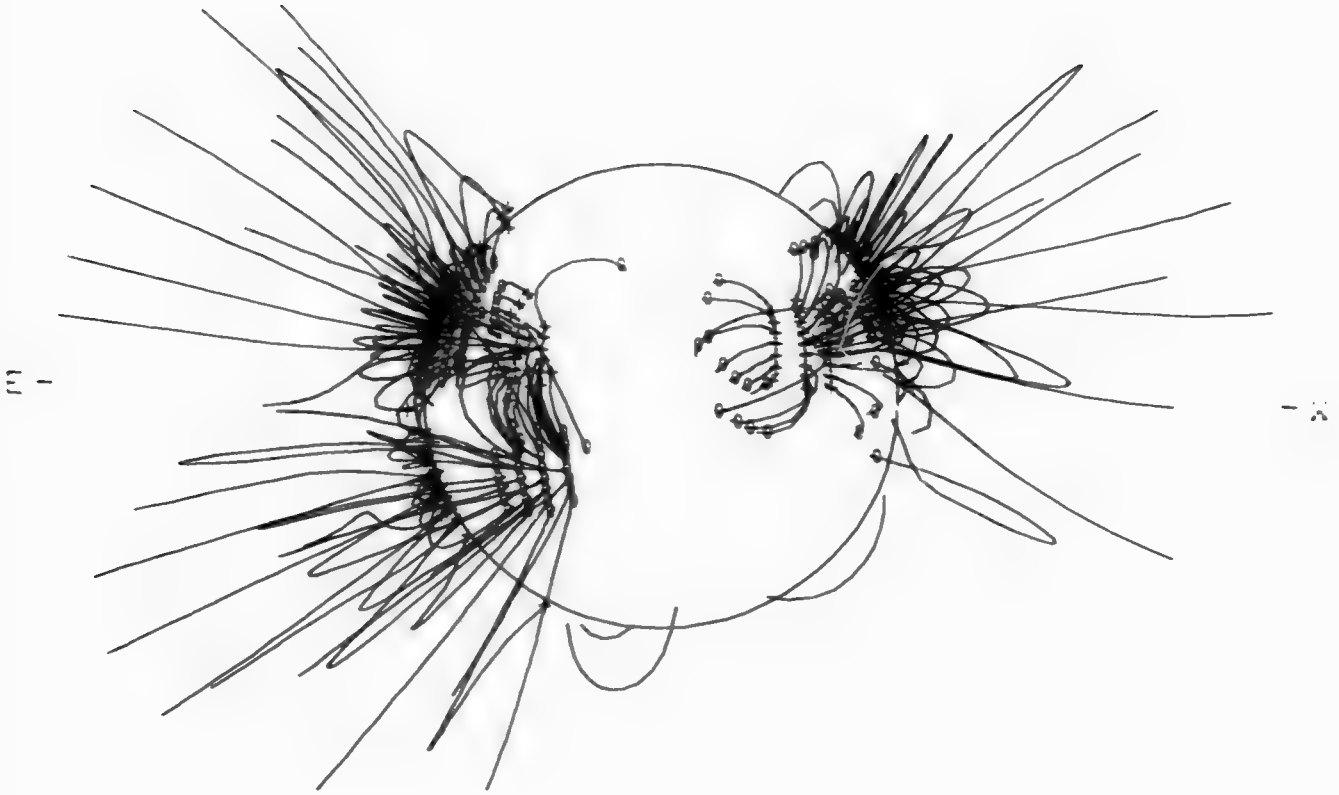
DATA WINDOW 1562.00

ROT. 1562 LONG. 1[illegible]°

23.3 JUN 197[illegible]

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N



QUALITY FAIR

POLES DIRECT

DATA WINDOW 1562.00

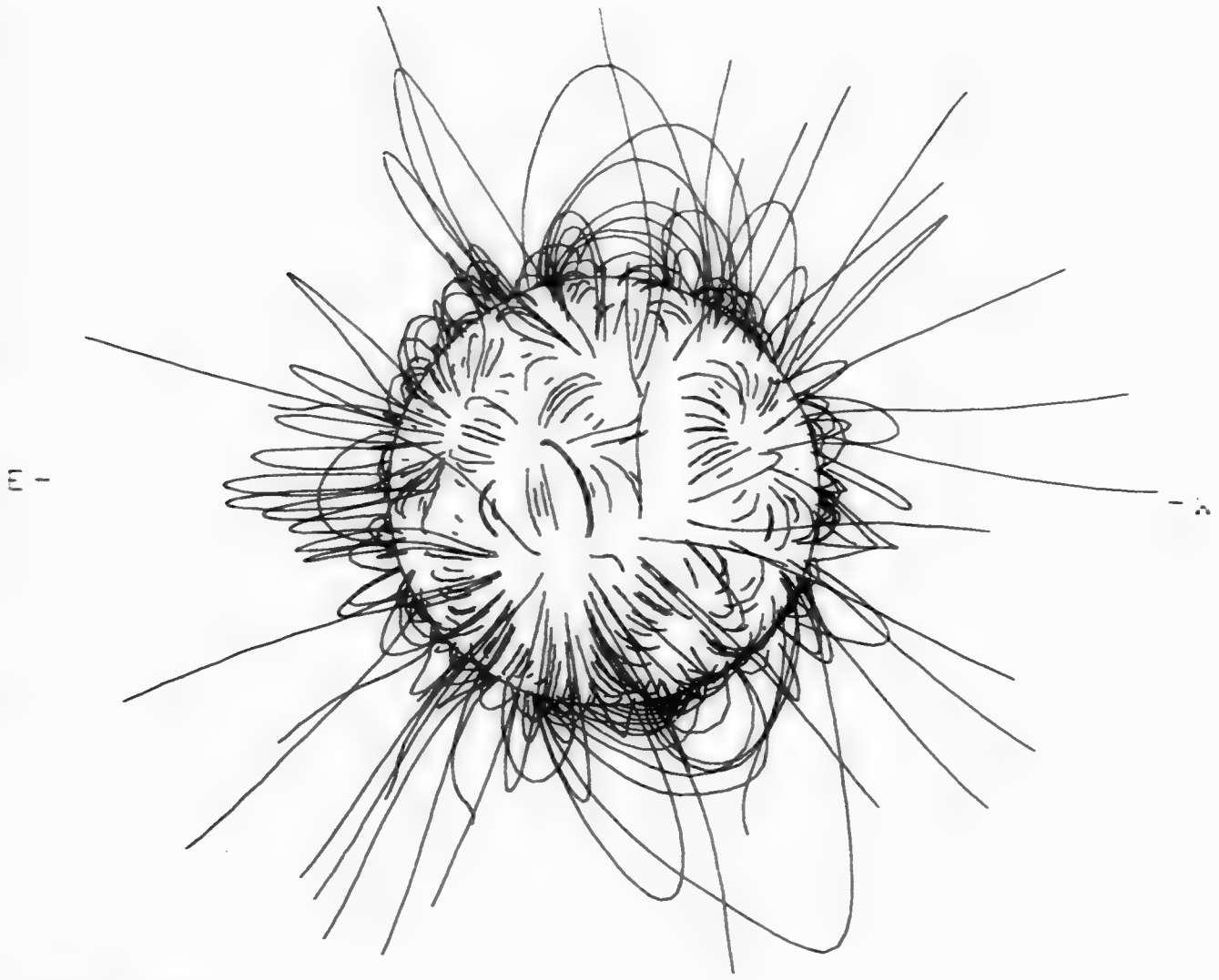
S

ROT. 1562 LONG. 120°

23.5 LAT 19°

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N



E

A

S

QUALITY FAIR

POLES DIRECT

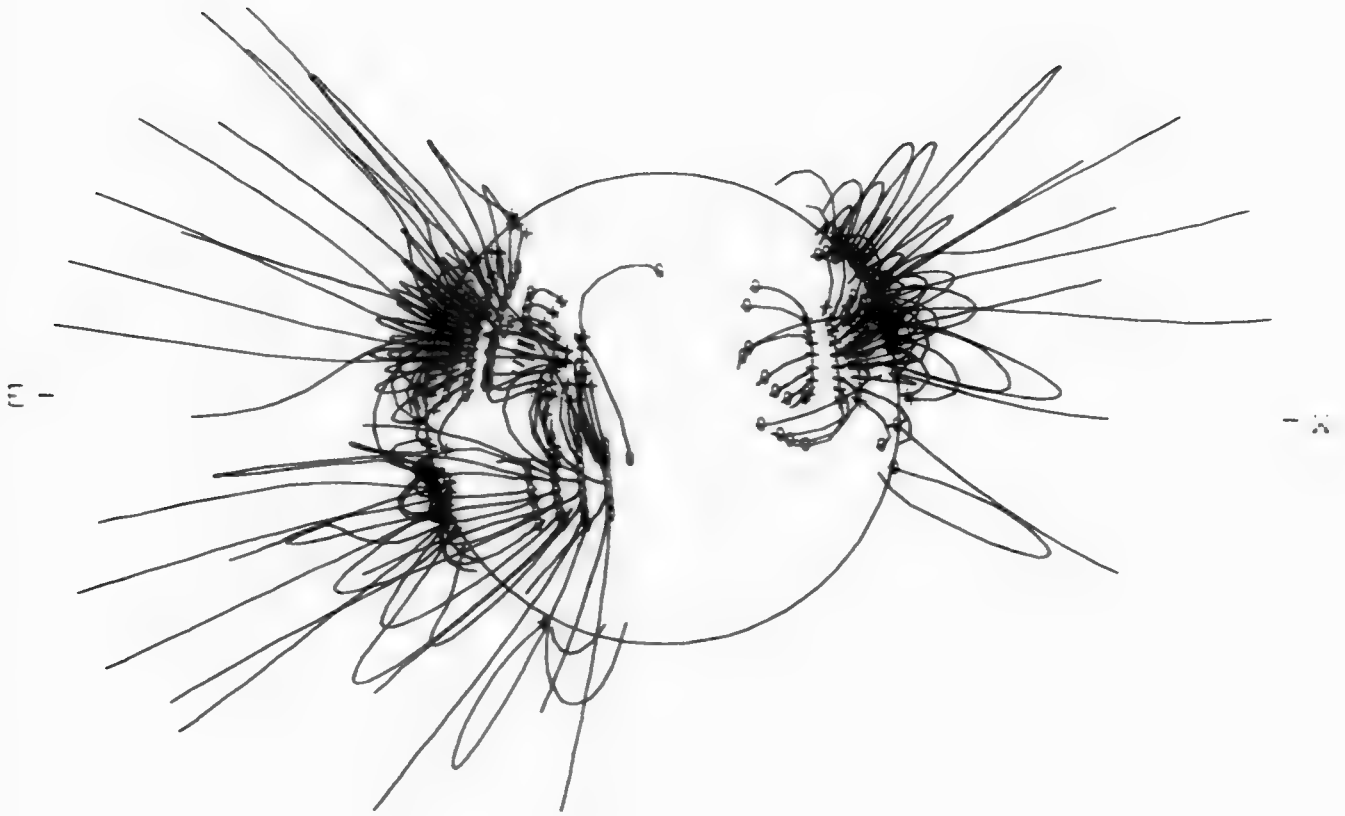
DATA WINDOW 1562.00

ROT. 1562 LONG. 150°

24.0 JUN 197[illegible]

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N



QUALITY FAIR

POLES DIRECT

DATA WINDOW 1562.00

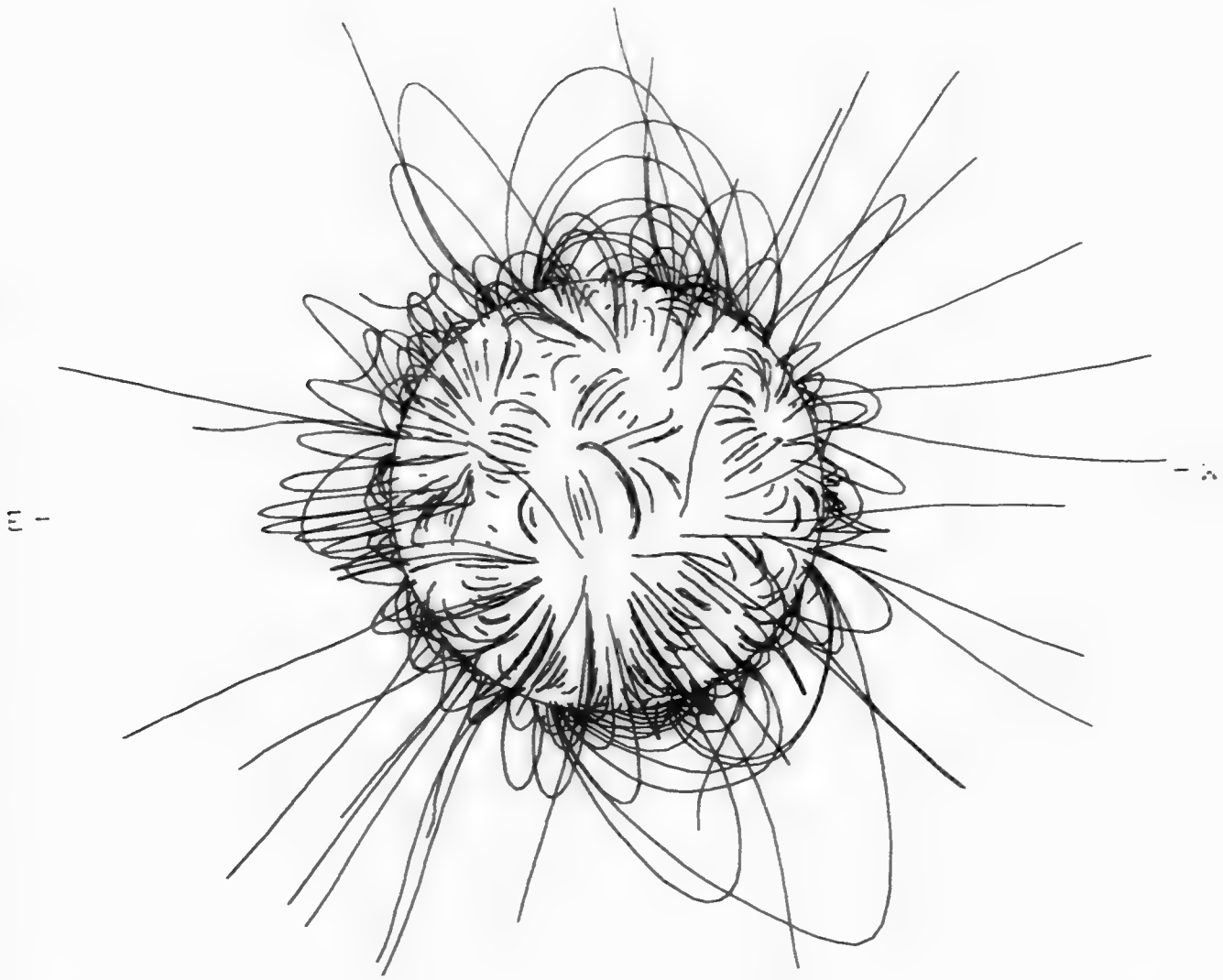
S

ROT. 1562 LONG. 150°

24.0 JUN 1970

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N



E

A

QUALITY FAIR

POLES DIRECT

DATA WINDOW 1562.00

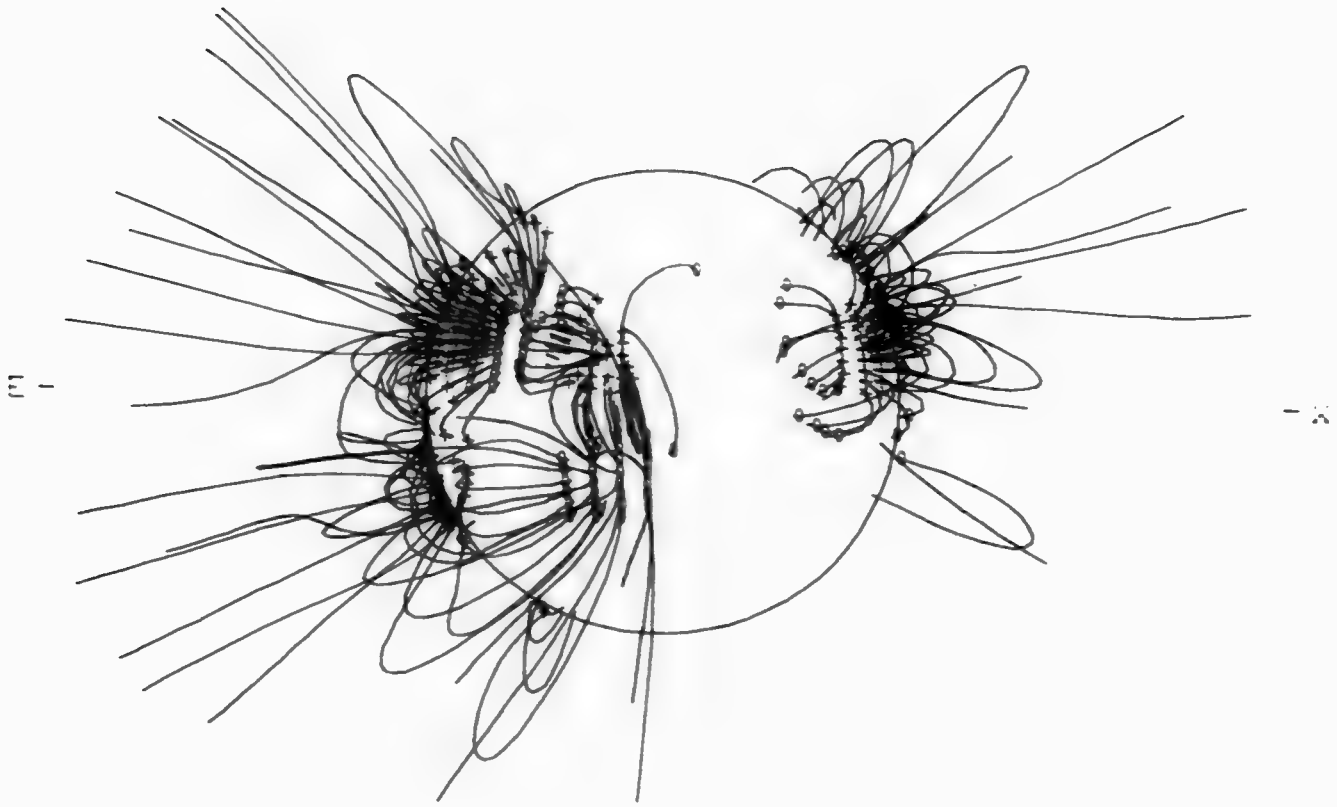
S

ROT. 1562 LONG. 12[illegible]°

24.8 JUN 197[illegible]

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N



E

W

QUALITY FAIR

POLES DIRECT

DATA WINDOW 1562.00

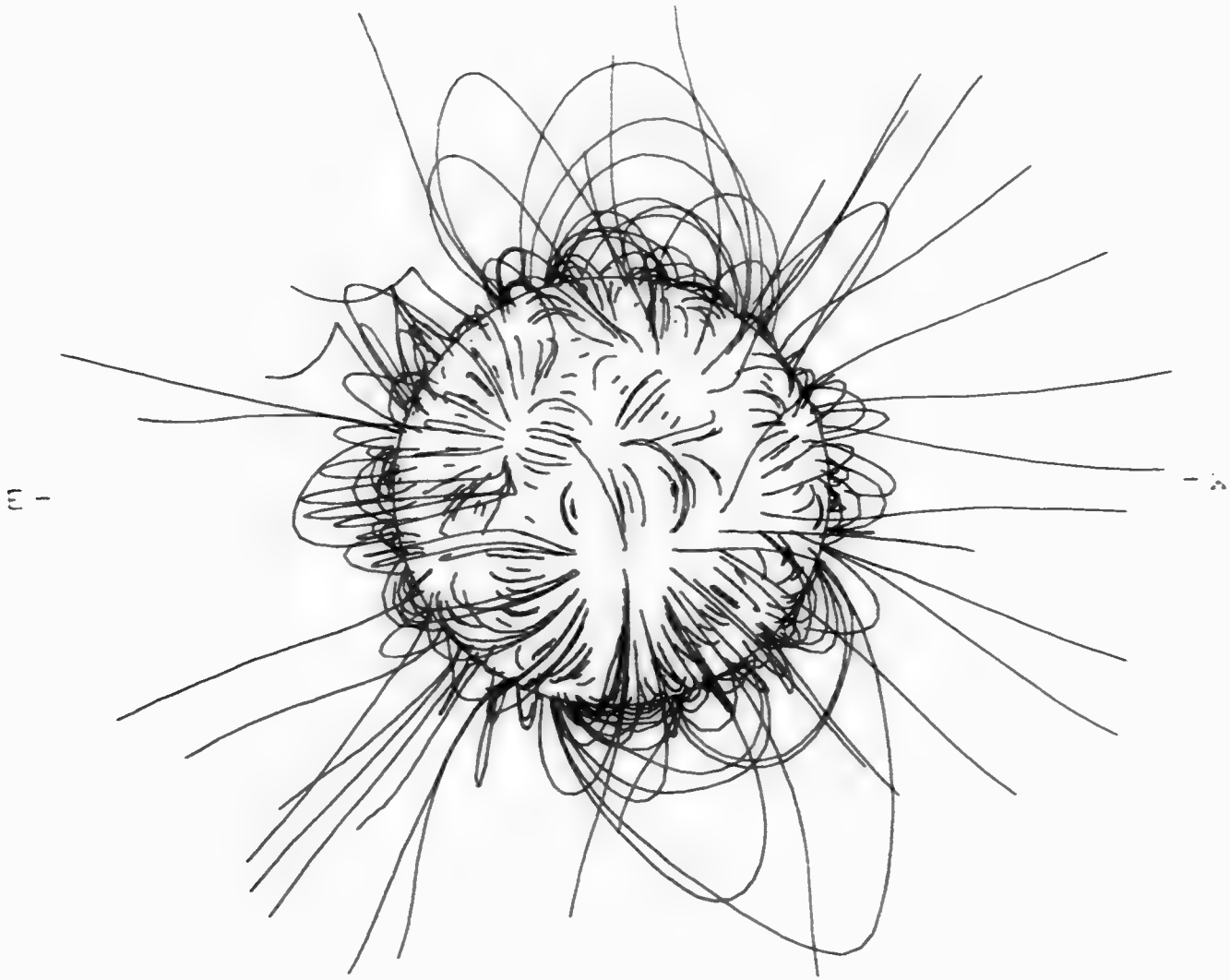
S

ROT. 1562 LONG. 120°

24.8 LAT

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N



E

A

S

QUALITY FAIR

POLES DIRECT

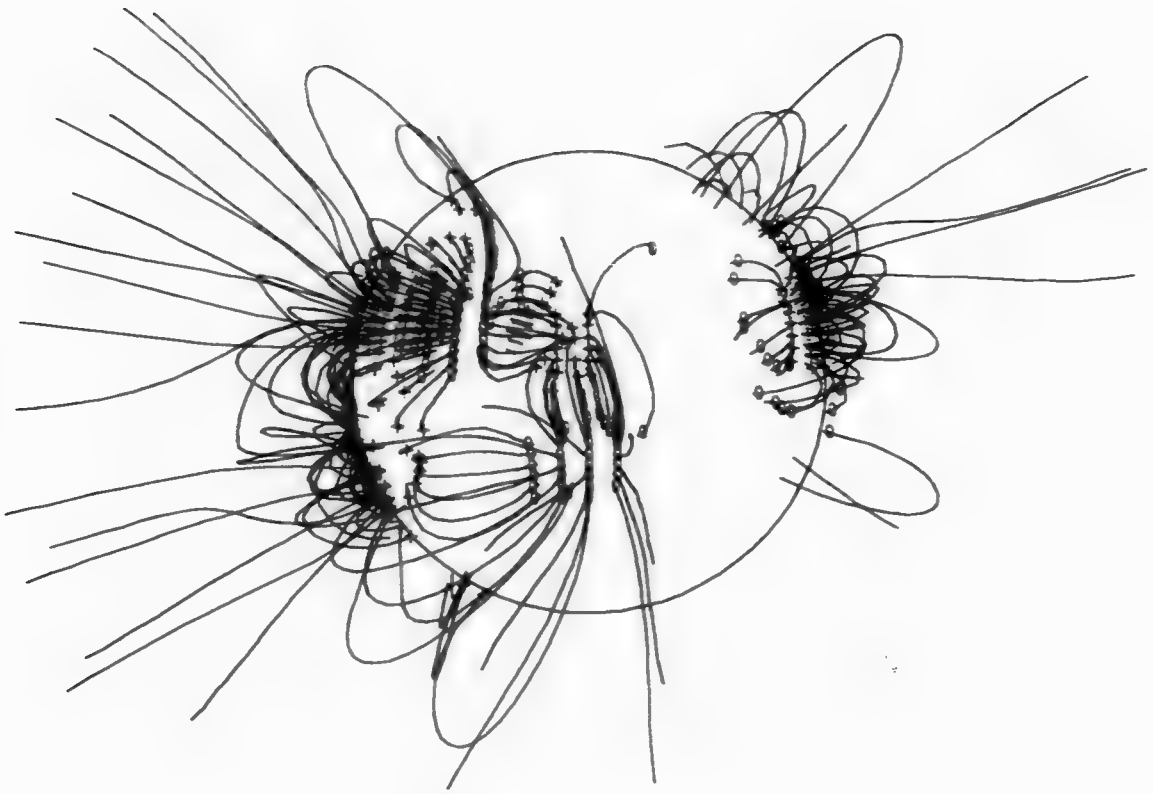
DATA WINDOW 1562.00

ROT. 1562 LONG. 11°

25.6 JUN 1970

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N



E

A

QUALITY FAIR

POLES DIRECT

DATA WINDOW 1562.00

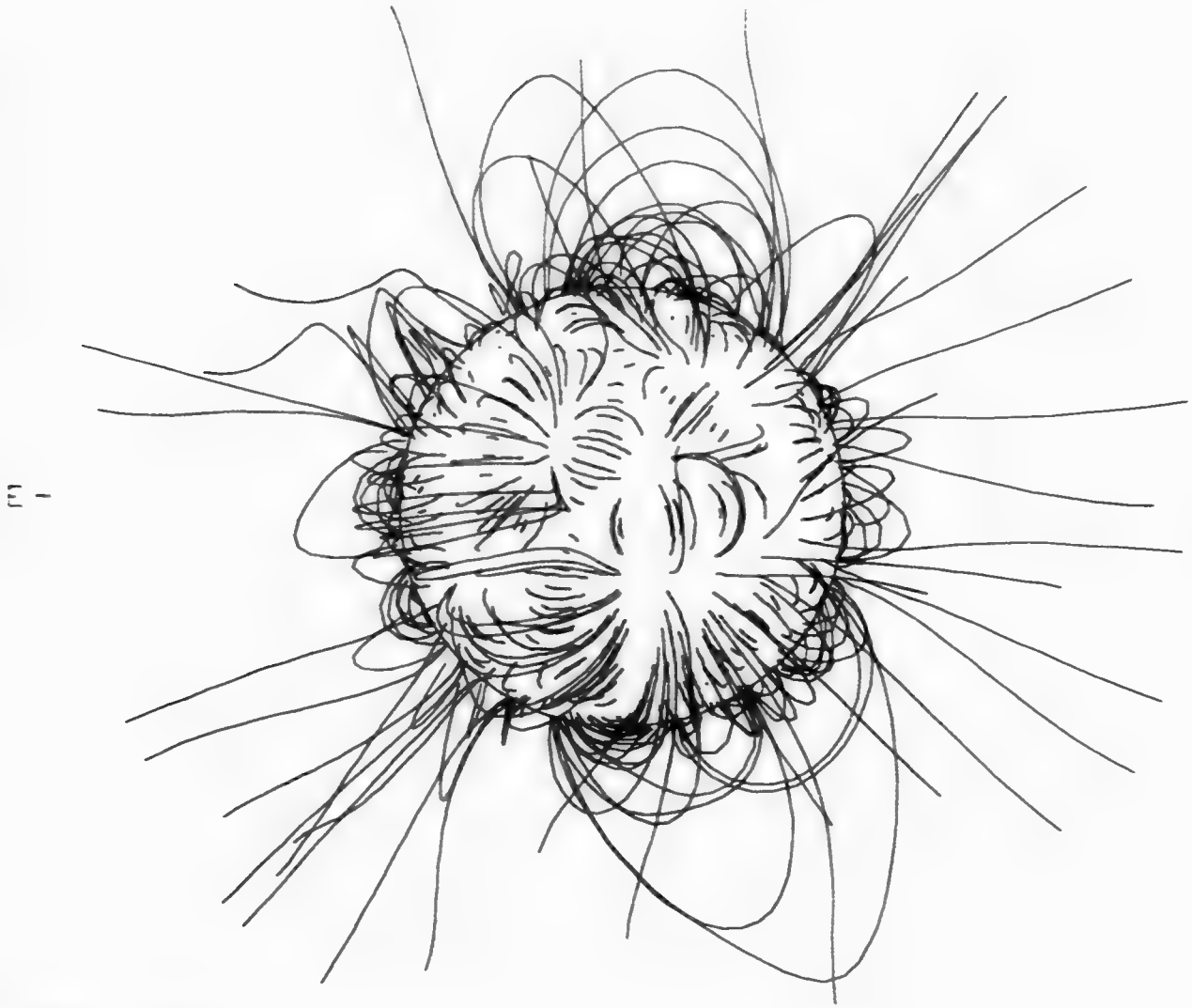
S

ROT. 1562 LONG. 11°

25.6 JUN 1970

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N



E

QUALITY FAIR

POLES DIRECT

DATA WINDOW 1562.00

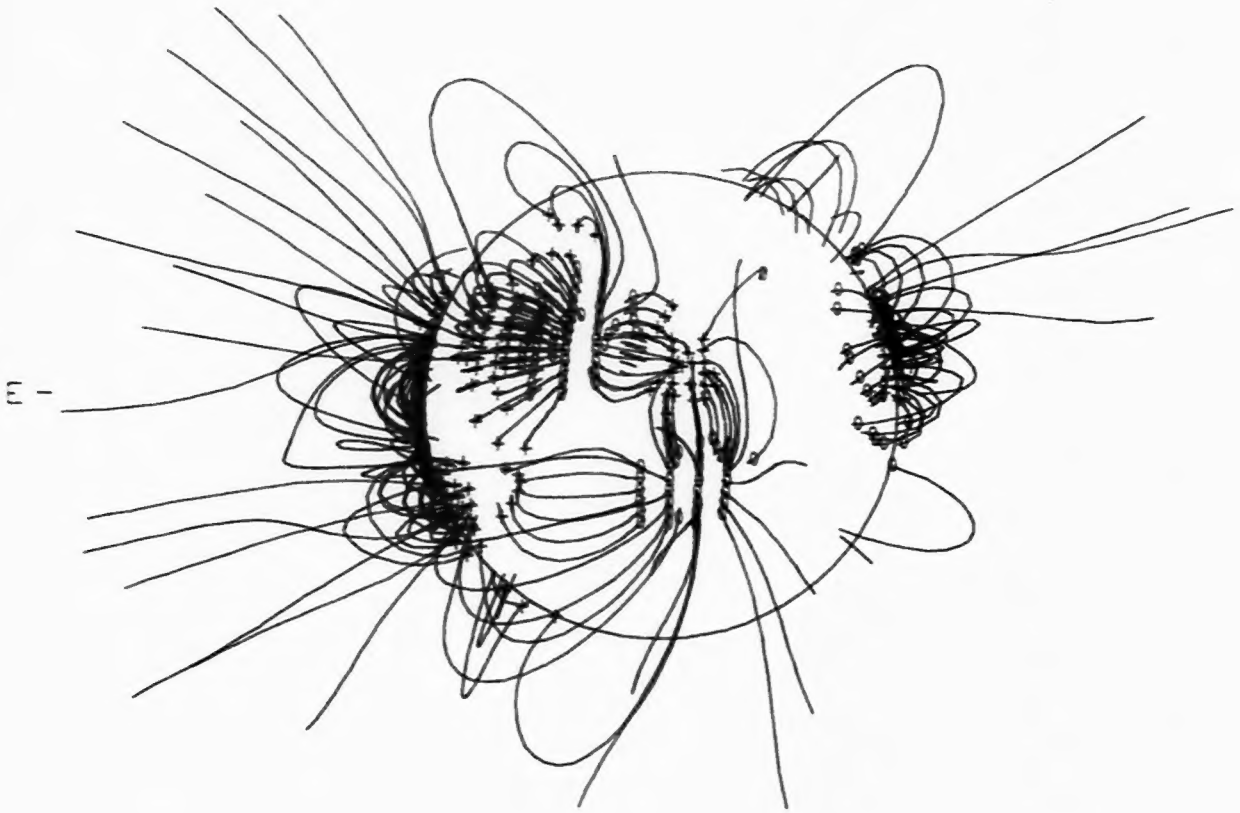
S

ROT. 1562 LONG. 1[illegible]°

26.3 JUN 197[illegible]

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N



E -

- W

QUALITY FAIR

POLES DIRECT

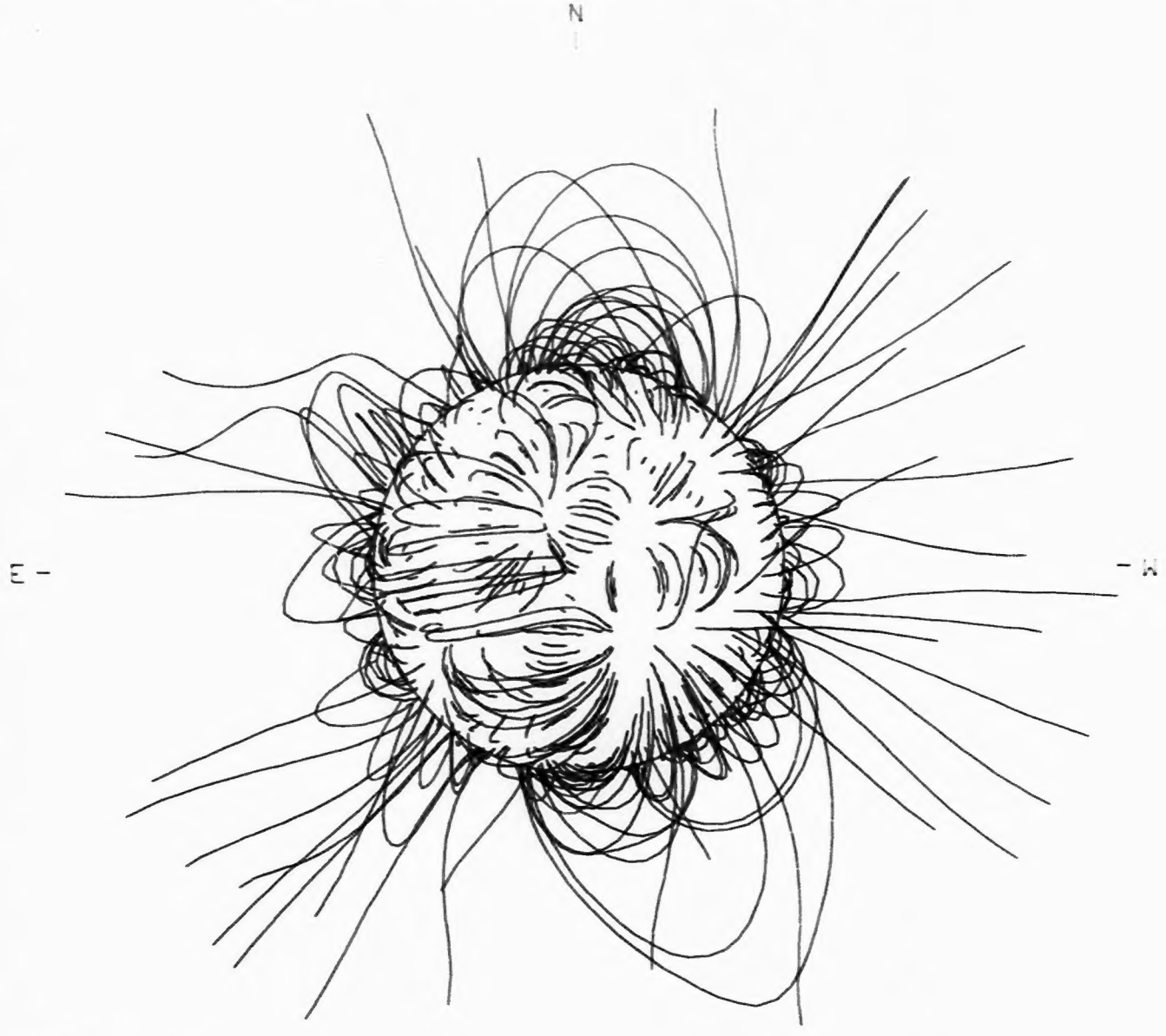
DATA WINDOW 1562.00

S

ROT. 1562 LONG. 100°

26.3 JUN 1970

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES



QUALITY FAIR

POLES DIRECT

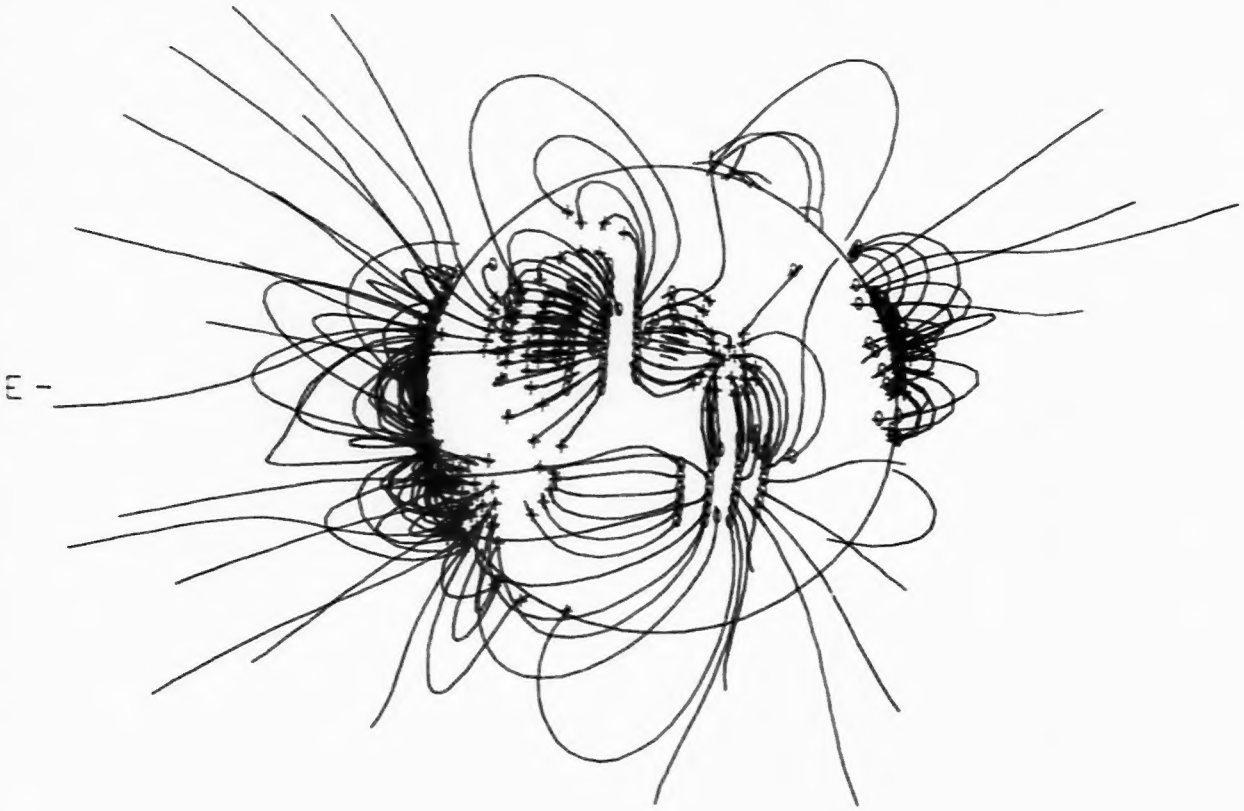
DATA WINDOW 1562.00

ROT. 1562 LONG. 90°

27.1 JUN 1970

HIGH ALTITUDE OBSERVATORY - HALE OBSERVATORIES

N



E -

- W

QUALITY FAIR

POLES DIRECT

DATA WINDOW 1562.00

S

ROT. 1562 LONG. 90°

27.1 JUN 1970